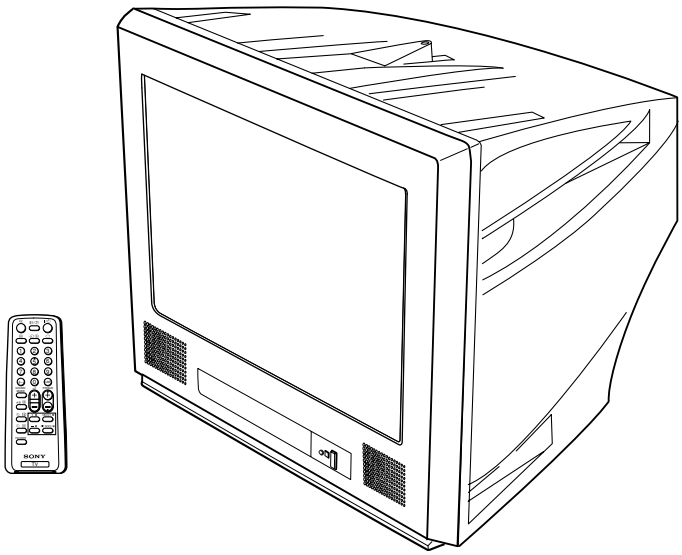
Self Diagnosis
Supported model

SERVICE MANUAL BG2T CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
				KV-PG14P70	RM-952	E	SCC-U68C-A



TRINITRON® COLOR TV

SONY®

SPECIFICATIONS

			Note
Power requirements	110-240 V AC, 50/60 Hz		KV-PG14M40/PG14P70
	220-240V AC, 50/60 Hz		KV-PG14M72/PG14M72/N/L/ PG14P42/PG14P42/G/L/N
Power consumption (W)	Indicated on the rear of the TV		
Television system	B/G		KV-PG14P42/PG14P42/G/L/N/ PG14P70
	B/G, I, D/K, M		KV-PG14M40/PG14M72/ PG14M72/L/N
Color system	PAL, PAL 60, NTSC3.58 (AV IN), NTSC4.43		KV-PG14P42/PG14P42/G/L/N PG14P70
	PAL, PAL 60, SECAM, NTSC3.58, NTSC4.43		KV-PG14M40/PG14M72/ PG14M72/N/L
Stereo/Bilingual system	NICAM Bilingual B/G, I, D/K		KV-PG14M72/PG14M72/N/L
	A2 Bilingual B/G		KV-PG14P42/PG14P42/G/L/N
Channel coverage			
B/G	VHF: E2 to E2 / UHF: E21 to E69/ CATV: S01 to S03, S1 to S41		
I	UHF: B21 to B68 CATV: S01 to S03, S1 to S41		(except KV-PG14P70)
D/K	VHF: C1 to C12, R1 to R12 UHF: C13 to C57, R21 to R60 CATV: S01 to S03, S1 to S41, Z1 to Z39		(except KV-PG14P70)
M	VHF: A2 to A13 UHF: A14 to A79 CATV: A-8 to A-2, A to W+4, W+6 to W+84		(except KV-PG14P70)
(Antenna)	75-ohm external terminal		
Audio output (Speaker)	3W		
Number of terminal			
Video	Input: 2* Output: 1	Phone jacks; 1 Vp-p, 75 ohms	*One input line available
Audio	Input: 2* Output: 1	Phone jacks; 500 mVrms	*One input line available
(Earphone)	Output: 1	Monaural minijack	
Picture tube	14 in		
Tube size (cm)	37		Measured diagonally
Screen size (cm)	34		Measured diagonally
Dimension (w/h/d,mm)	375 x 346 x 411		
Mass (kg)	12		

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

TABLE OF CONTENTS

Section *Title* *Page*

SELF DIAGNOSTIC FUNCTION 4

1. GENERAL 7

2. DISASSEMBLY
2-1. Rear Cover Removal 11
2-2. Speaker Removal 11
2-3. Chassis Assy Removal 11
2-4. F Board Removal 11
2-5. Service Position 11
2-6. Terminal Bracket Removal 11
2-7. Replacement Of Parts 12
2-7-1. Replacement Of Light Guide 12
2-7-2. Replacement Of Power Button 12
2-8. Picture Tube Removal 12

3. SET-UP ADJUSTMENTS
3-1. Beam Landing 14
3-2. Convergence 15
3-3. Focus Adjustment 17
3-4. G2 (SCREEN) and White Balance Adjustments ... 17

4. CIRCUIT ADJUSTMENTS
4-1. Adjustment With Commander 18
4-2. Adjustment Method 18
4-3. Picture Quality Adjustment 24
4-4. Deflection Adjustment 24
4-5. A Board Adjustment After IC003 (MEMORY) Replacement 24
4-6. Picture Distortion Adjustment 25

Section *Title* *Page*

5. DIAGRAMS
5-1. Block Diagram 27
5-2. Circuit Boards Location 29
5-3. Schematic Diagram 30
(1) Schematic Diagram of A Board 31
(2) Schematic Diagram of C and F Boards 33
(3) Schematic Diagram of A3 Board 35
5-4. Voltage Measurement 39
5-5. Waveforms 41
5-6. Printed Wiring Boards and Parts Location 42
5-7. Semiconductors 45

6. EXPLODED VIEWS
6-1. Picture Tube and Chassis 47

7. ELECTRICAL PARTS LIST 49

SELF DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER lamp will automatically begin to flash.
The number of times the lamp flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER lamp flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1. DIAGNOSTIC TEST INDICATORS

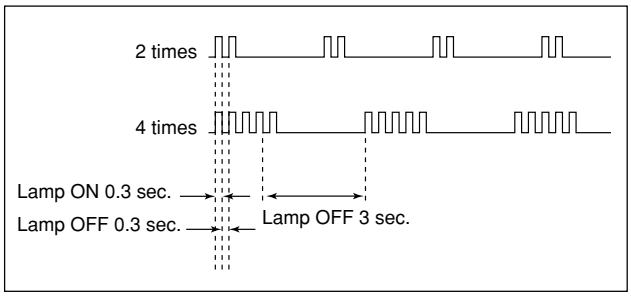
When an errors occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

Result for all of the following diagnostic items are displayed on screen. No error has occured if the screen displays a "0".

Diagnostic Item Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic display/Diagnostic result	Probable Cause Location	Detected Symptoms
• Power does not turn on	Does not light	—	• Power cord is not plugged in. • Fuse is burned out F4601 (F)	• Power does not come on. • No power is supplied to the TV. • AC power supply is faulty.
• +B overcurrent (OCP) • Horizontal deflection overdrive	2 times	002:000 or 002:001~255	• H.OUT Q801 is shorted. (A board)	• Power does not come on. • Load on power line is shorted. • Has entered standby state after horizontal raster. • Power line is shorted or power supply is stopped.
• White balance failure (no PICTURE) • Vertical deflection stopped	4 times	004:000 or 004:001~225	• -13V is not supplied. (A board) • IC 551 faulty (A board)	• Vertical deflection pulse is stopped
• Micro reset	—	101:00 or 101:001~225	• Discharge CRT (C Board) • Static discharge • External noise	• Power is shut down shortly, after this return back to normal. • Detect Micro latch up.

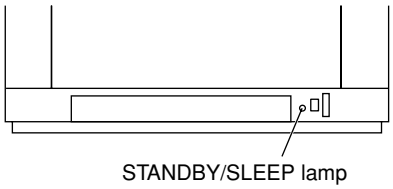
Note 1: If a + B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously. The symptom that is diagnosed first by the microcontroller is displayed on the screen.
Note 2: Refer to screen (G2) Adjustment in section 3-4 of this manual.

2. DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT



Diagnostic Item	Flash Count*
+B overcurrent/overvoltage	2 times
Vertical deflection stopped	4 times

* One flash count is not used for self-diagnostic.



3. STOPPING THE STANDBY/TIMER FLASH

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER lamp from flashing.

4. SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurances of failure for confirmation on the screen:

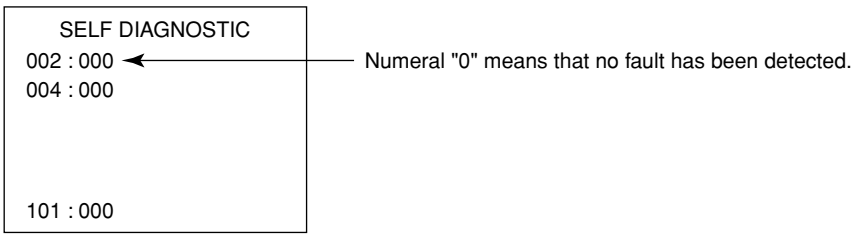
[To Bring Up Screen Test]
In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:

[Screen display] ➡ channel [5] ➡ Sound volume [-] ➡ Power ON

⇧

Note that this differs from entering the service mode (mode volume [+]).

Self-Diagnosis screen display



5. HANDLING OF SELF-DIAGNOSTIC SCREEN DISPLAY

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to “0”.

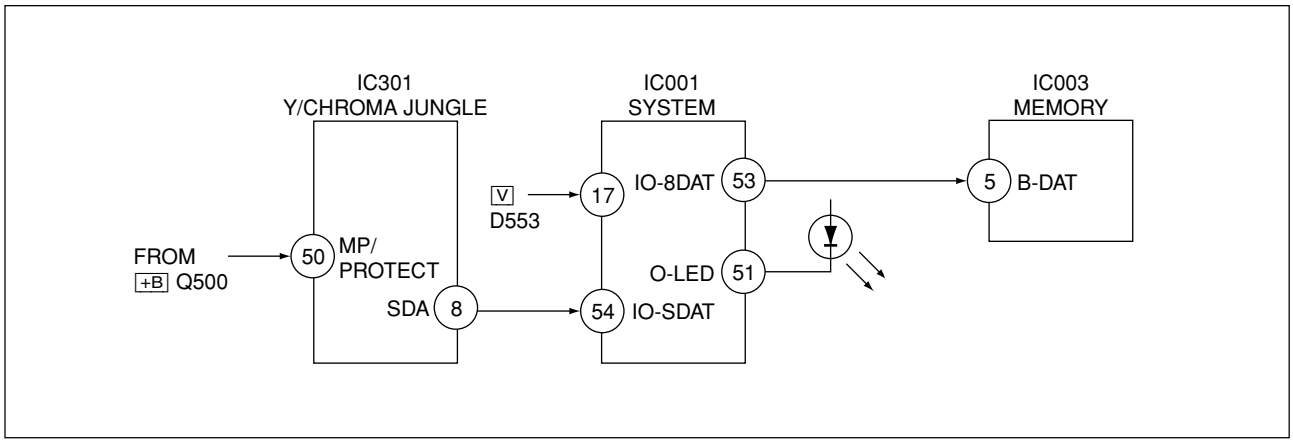
Unless the result display is cleared to “0”, the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

[Clearing the result display]
To clear the result display to “0”, press buttons on the remote commander sequentially as shown below when the diagnostic screen is being displayed.

Channel [8] ➡ 0

[Quitting Self-diagnostic screen]
To quit the entire self-diagnostic screen, turn off the power switch on the remote commander or the main unit.

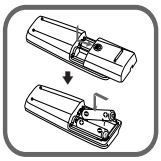
6. SELF-DIAGNOSTIC CIRCUIT



[+B overcurrent (OCP)]	Occurs when an overcurrent on the +B(135) line is detected by Q500. If Q500 go to ON and the voltage to pin 50 of IC301 more than 3.5V when V.SYNC is more than seven verticals in a period, the unit will automatically turn off.
[Vertical deflection stopped]	Occurs when an absence of the vertical deflection pulse is detected by Pin 17 and IC001 shut down the power supply.
[White balance failure]	If the RGB levels* do not balance or become low level within 5 seconds, this error will be detected by IC301. TV will stay on, but there will be no picture. * (Refers to the RGB levels of the AKB detection Ref pulse that detects IK.)

SECTION 1
GENERAL

A Getting Started (KV-PG14M40/PG14P70/PG14M72/PG14M72/N/L)

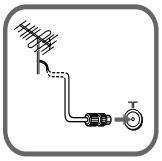


Step 1

Insert the batteries (supplied) into the remote.

Note

- Do not use old batteries nor use different types of batteries together.

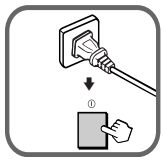


Step 2

Connect the antenna cable (not supplied) to ⊤ at the rear of the TV.

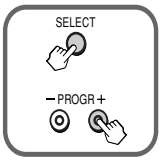
Tip

- You can also connect your TV to other optional components. (See E)



Step 3

Plug in the power cord, then press ⏻ on the TV to turn it on.

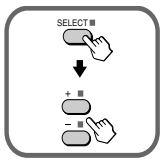


Step 4

Press SELECT and PROGR + on the TV at the same time for one to two seconds to preset the channels automatically. (See J)

Tip

- To stop the automatic channel presetting, press SELECT twice.

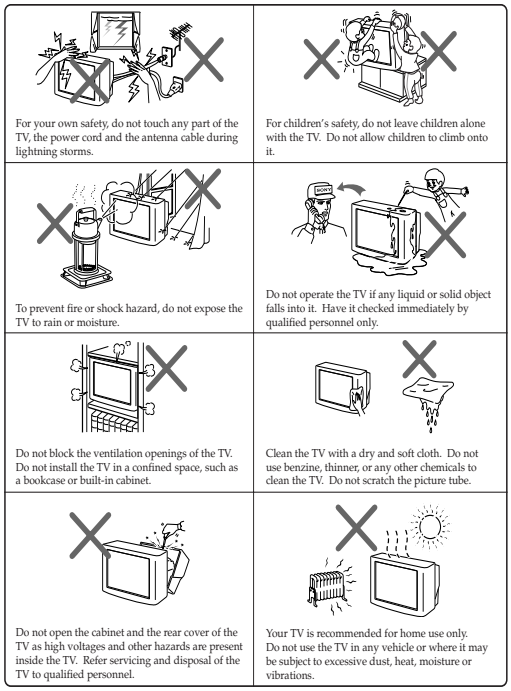


Step 5

Press SELECT on the remote until "LANGUAGE/语言: ENGLISH" appears on the screen, then press + or – to change the on-screen display language.

B WARNING

- Dangerously high voltages are present inside the TV.
- TV operating voltage: 220 – 240 V AC. (KV-PG14M72/PG14P42)
  110 – 240 V AC. (KV-PG14M40/PG14P70)
- Do not plug in the power cord until you have completed making all other connections; otherwise a minimum leakage current might flow through the antenna and other terminals to ground.
- To avoid battery leakage and damage to the remote, remove the batteries from the remote if you are not going to use it for several days. If any liquid that leaks from the batteries touches you, immediately wash it away with water.



For your own safety, do not touch any part of the TV, the power cord and the antenna cable during lightning storms.

For children's safety, do not leave children alone with the TV. Do not allow children to climb onto it.

To prevent fire or shock hazard, do not expose the TV to rain or moisture.

Do not operate the TV if any liquid or solid object falls into it. Have it checked immediately by qualified personnel only.

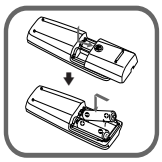
Do not block the ventilation openings of the TV. Do not install the TV in a confined space, such as a bookcase or built-in cabinet.

Clean the TV with a dry and soft cloth. Do not use benzine, thinner, or any other chemicals to clean the TV. Do not scratch the picture tube.

Do not open the cabinet and the rear cover of the TV as high voltages and other hazards are present inside the TV. Refer servicing and disposal of the TV to qualified personnel.

Your TV is recommended for home use only. Do not use the TV in any vehicle or where it may be subject to excessive dust, heat, moisture or vibrations.

A Getting Started (KV-PG14P42/PG14P42/G/L/N)

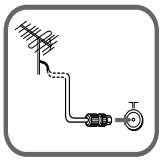


Step 1

Insert the batteries (supplied) into the remote.

Note

- Do not use old batteries nor use different types of batteries together.

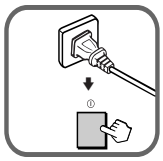


Step 2

Connect the antenna cable (not supplied) to ⊤ at the rear of the TV.

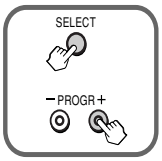
Tip

- You can also connect your TV to other optional components. (See E)



Step 3

Plug in the power cord, then press ⏻ on the TV to turn it on.

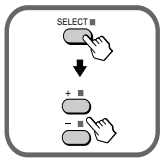


Step 4

Press SELECT and PROGR + on the TV at the same time for one to two seconds to preset the channels automatically. (See J)

Tip

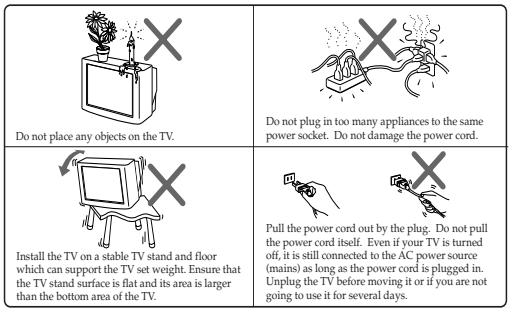
- To stop the automatic channel presetting, press SELECT twice.



Step 5

Press SELECT on the remote until "LANGUAGE/ภาษา: ENGLISH" appears on the screen, then press + or – to change the on-sceen display language.

WARNING (continued)



Do not place any objects on the TV.

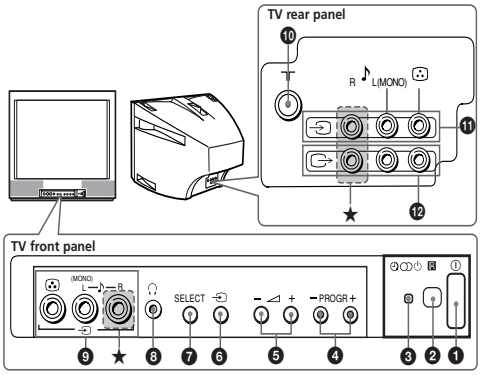
Do not plug in too many appliances to the same power socket. Do not damage the power cord.

Install the TV on a stable TV stand and floor which can support the TV set weight. Ensure that the TV stand surface is flat and its area is larger than the bottom area of the TV.

Pull the power cord out by the plug. Do not pull the power cord itself. Even if your TV is turned off, it is still connected to the AC power source (mains) as long as the power cord is plugged in. Unplug the TV before moving it or if you are not going to use it for several days.

The operating instruction mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

D TV front and rear panels



Button	Function
❶ ⏻	Turn off completely or turn on the TV.
❷ R	Remote control sensor.
❸ ⏻	Standby indicator.
❸ ◯◯	Stereo/bilingual indicator. (KV-TG21M90 only)
❸ ○○	Bilingual indicator. (KV-PG14M72 only)
❸ 🕘	Wake Up indicator.
❹ PROGR +/–	Select program number.
❺ ◿ +/– *	Adjust volume.
❻ ⏎	Select TV or video input.
❼ SELECT	Select the desired item.
❽ 🎧	Headphone terminal. (KV-TG21 only)
❽ ⊄	Earphone terminal. (KV-PG14 only)
❾, ⓫ ⏎	Video input terminal.
❿ ⊤	Antenna terminal.
⓬ ⏎	Monitor output terminal.

* You can also use the ◿ +/– buttons on the TV to work as the +/– buttons on the remote.

★ *The R (audio input) jacks are only available for KV-TG21 only.*

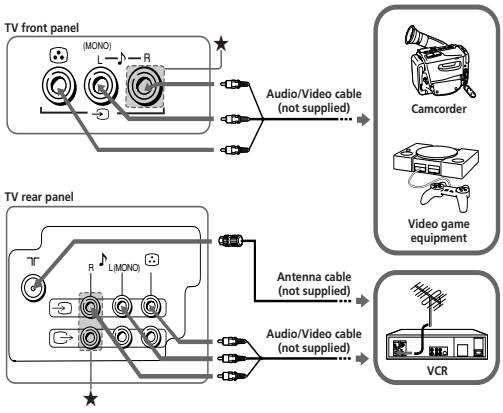
F Troubleshooting

If you find any problem while viewing your TV, please check the following guide. If any problem persists, contact your Sony dealer.

Symptom	Solutions
Snowy picture, noisy sound	• Check the antenna cable and connection on the TV, VCR and on the wall. • Preset the channel manually again. (See J) • Check the antenna setup. Contact a Sony dealer for advice.
Good picture, noisy sound	• Select the appropriate TV system. (See J) (KV-PG14M40/PG14M72) • Press A/B until the sound is optimal. (KV-PG14P42 only)
No picture,no sound	• Check the power cord, antenna and the VCR connections. • Press I/⏻ (power) or ⏻ (main power) to turn on the TV.
Good picture, no sound	• Press ◿ + to increase the volume level. • Press 🔇 to cancel the muting.
Dotted lines or stripes	• Do not use a hair dryer or other equipment near the TV. • Check the antenna setup. Contact a Sony dealer for advice.
Double images or "ghosts"	• Use the fine tuning ("FINE") function. (See J) • Turn off or disconnect the booster if it is in use. • Check the antenna setup. Contact a Sony dealer for advice.
No color	• Select the appropriate color system. (See J) • Adjust the color level. (See K) • Check the antenna setup. Contact a Sony dealer for advice.
Abnormal color patches	• Keep external speakers or other electrical equipment away from the TV. Press ⏻ (main power) to turn off the TV for about 15 minutes, then turn it on again to demagnetize the TV.
The ⏻ (standby) indicator on your TV flashes red several times after every three seconds.	• Count the number of times the ⏻ (standby) indicator flashes. Press ⏻ (main power) to turn off your TV. Contact your nearest Sony service center.
TV cabinet creaks.	• Changes in room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.
A "boom" sound is heard when the TV is turned on.	• The TV's demagnetizing function is working. This does not indicate a malfunction.

E Connecting optional components

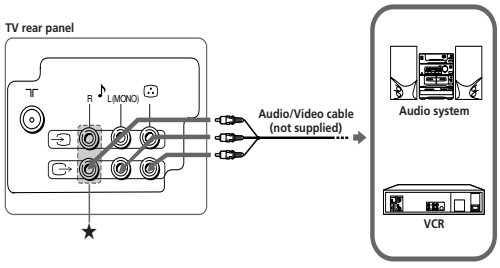
Connecting to the video input terminal (⏎)



Note

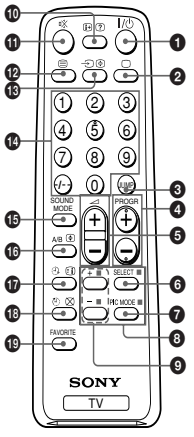
- Do not connect video equipment to ⏎ (video input) at the front and the rear of your TV at the same time; otherwise the picture will not be displayed properly on the screen.

Connecting to the monitor output terminal (⏎)



★ *The R (audio input) jacks are only available for KV-TG21 only.*

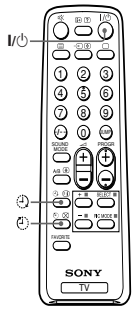
H Remote control



Button	Function	See
❶ I/⏻	Turn off temporarily or turn on the TV.	–
❷ ▢	Display the TV program.	–
❸ JUMP	Jump to previous program number.	–
❹ PROGR +/–	Select program number.	–
❺ ◿ +/–	Adjust volume.	–
❻ SELECT	Select the desired item.	–
❼ PIC MODE	Select picture mode.	K
❾ +/–	Adjust items.	–
❿ ⓘ+	Display on-screen information.	–
⓫ 🔇	Mute the sound.	–
⓭ ⏎	Select TV or video input.	–
⓮ 0 – 9, -/--	Input numbers.	–
Timer operations		
⓱ 🕘	Set TV to turn on automatically.	I
⓲ 🕘	Set TV to turn off automatically.	I
Sound mode operations (KV-TG21M90 only)		
⓯ SOUND MODE	Select sound mode.	K
Stereo/bilingual operations		
⓰ A/B	Select stereo/bilingual mode. (KV-PG14M72 only)	M
	Select Bilingual mode. (KV-PG14P42 only)	M
Teletext operations		
❽ ■ (red, green, yellow, blue)	Not function for your TV.	–
❿ ?		
⓬ ☰		
⓭ ✱		
⓰ ⇧		
⓱ 🖹		
⓲ ⊗		
⓳ FAVORITE	Not function for your TV.	–

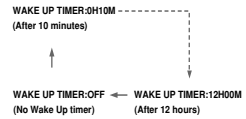
I Setting the timers

You can turn on and off your TV by using the ◴ and ◴ buttons respectively.



Setting the Wake Up timer

1 Press ◴ until the desired period of time appears on the screen.



The Wake Up timer starts immediately after you have set it.

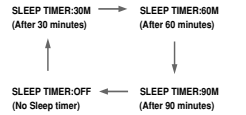
2 Select the program number or video input you want to wake up to.

3 Press I/⏻, or set the Sleep timer if you want the TV to turn off automatically.

The ◴ indicator on the TV lights up orange when the TV goes into standby mode.

Setting the Sleep timer

Press ◴ until the desired period of time appears on the screen.



The Sleep timer starts immediately after you have set it.

Notes

- You can also cancel the Wake Up and Sleep timers by turning off the TV's main power.
- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up timer, the TV automatically goes into standby mode.

Presetting channels (continued) (KV-PG14M40/PG14M72)

To change the TV system setting

If the picture or sound is abnormal when receiving programs through the ⅂ (antenna) terminal

(1) Press SELECT until "TV SYS" appears on the screen.

(2) Press + or – to select the appropriate TV system until the picture or sound quality is optimal.

B/G → I → D/K → M

To change the color system setting

If the color is abnormal when receiving programs through the ⅂ (antenna) terminal or the ⇦ (video input) terminal

(1) Press SELECT until "COLOR SYS" appears on the screen.

(2) Press + or – to select the appropriate color system until the color is optimal.

AUTO → PAL → SECAM → NTSC3.58 → NTSC4.43

To skip program numbers

(1) Press PROGR +/– or the number buttons until the unused or unwanted program number appears on the screen.

(2) Press SELECT until "MANUAL PROGRAM" appears on the screen.

(3) Press + or – once to enter the "MANUAL PROGRAM" mode.

(4) Press PIC MODE to skip the unused or unwanted program number.

(5) Press SELECT to exit the "MANUAL PROGRAM" mode.

Note

- To restore the skipped program number again, preset the channel automatically or manually.

To use the fine tuning function

The fine tuning (FINE) function may help to reduce the following problems: double images and lines moving across the TV screen.

You can use the fine tuning function as below:

(1) Select the program number you want to adjust.

(2) Press SELECT until "MANUAL PROGRAM" appears on the screen.

(3) Press + or – once to enter the "MANUAL PROGRAM" mode.

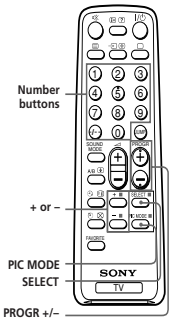
(4) Press ⇨ to display "FINE" on the screen.

(5) Press + or – continuously until the above problems are minimized. The + or – icon on the screen flashes while tuning.

(6) Press SELECT to exit the "MANUAL PROGRAM" mode.

J Presetting channels

You can automatically preset up to 100 TV channels in numerical sequence from program number 1, or manually preset desired channels and channels that cannot be preset automatically.



Presetting channels automatically from a specified program number

1 Press SELECT until "AUTO PROGRAM" appears on the screen.

2 Press + or – once to enter the "AUTO PROGRAM" mode.

The on-screen display will start flashing.

3 Press PROGR +/– or the number buttons until the desired program number appears on the screen.

4 Press + or – to start presetting channels automatically.

Presetting channels manually

1 Press SELECT until "MANUAL PROGRAM" appears on the screen.

2 Press + or – once to enter the "MANUAL PROGRAM" mode.

3 Press PROGR +/– or the number buttons until the desired program number appears on the screen.

4 Press + or – until the desired channel picture appears on the screen.

5 To preset other channels manually, repeat steps 3 to 4.

Presetting channels (continued) (KV-PG14P42 only)

To change the color system setting

If the color is abnormal when receiving programs through the ⅂ (antenna) terminal or the ⇦ (video input) terminal

(1) Press SELECT until "COLOR SYS" appears on the screen.

(2) Press + or – to select the appropriate color system until the color is optimal.

AUTO → PAL → NTSC3.58 → NTSC4.43

To skip program numbers

(1) Press PROGR +/– or the number buttons until the unused or unwanted program number appears on the screen.

(2) Press SELECT until "MANUAL PROGRAM" appears on the screen.

(3) Press + or – once to enter the "MANUAL PROGRAM" mode.

(4) Press PIC MODE to skip the unused or unwanted program number.

(5) Press SELECT to exit the "MANUAL PROGRAM" mode.

Note

- To restore the skipped program number again, preset the channel automatically or manually.

To use the fine tuning function

The fine tuning (FINE) function may help to reduce the following problems: double images and lines moving across the TV screen.

You can use the fine tuning function as below:

(1) Select the program number you want to adjust.

(2) Press SELECT until "MANUAL PROGRAM" appears on the screen.

(3) Press + or – once to enter the "MANUAL PROGRAM" mode.

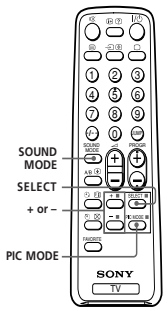
(4) Press ⇨ to display "FINE" on the screen.

(5) Press + or – continuously until the above problems are minimized. The + or – icon on the screen flashes while tuning.

(6) Press SELECT to exit the "MANUAL PROGRAM" mode.

K Customizing the picture and sound

You can customize the picture and sound by selecting the picture and sound modes or by adjusting its settings.



Selecting the picture mode

Press PIC MODE to select the desired picture mode.

Select	To
"DYNAMIC"	view high contrast pictures.
"STANDARD"	view normal contrast pictures.
"SOFT"	view mild pictures.

Selecting the sound mode

▶ **KV-TG21P52 only** (Not used for this model)

Press SOUND MODE to select the desired sound mode.

Select	To
"♪ DYNAMIC"	listen to dynamic and clear sound that emphasizes the low and high sound.
"♪ DRAMA"	listen to sound that emphasizes vocals and background music.
"♪ SOFT"	listen to soft sound.

Adjusting the picture and sound settings

1 Press SELECT until the desired setting appears.

Each time you press SELECT, the setting item will change as follows:

PICTURE → COLOR → BRIGHT → HUE → SHARP → BASS → TREBLE → BALANCE → (PICTURE)

2 Press + or – to adjust the item.

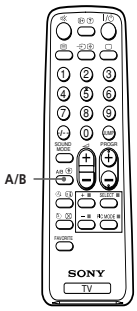
3 To adjust other items, repeat steps 1 to 2.

Notes

- "BASS", "TREBLE" and "BALANCE" can be adjusted for KV-TG21P52 only.
- "HUE" can be adjusted for the NTSC color system only.
- Reducing "SHARP" can also reduce picture noise.

L Enjoying bilingual program (KV-PG14P42/PG14P42/G/L/N)

You can enjoy bilingual program of A2 bilingual system by using the A/B button.



When receiving an A2 program

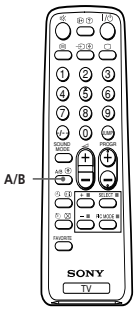
Broadcasting	On-screen display (Selected sound)
A2 bilingual	MAIN (Main sound) → SUB (Sub sound) → MAIN

Note

- When viewing a non-bilingual program, select the main sound. Otherwise, you may hear some noise or abnormal sound.

M Enjoying stereo or bilingual programs (KV-PG14M72/PG14M72/N/L)

You can enjoy stereo sound or bilingual programs of NICAM and A2 stereo systems by using the A/B button.



When receiving a NICAM program

Broadcasting	On-screen display (Selected sound)
NICAM stereo (KV-TG21M90 only)	NICAM (Stereo sound) → MONO (Regular sound) → NICAM
NICAM bilingual	NICAM MAIN (Main sound) → NICAM SUB (Sub sound) → MONO (Regular sound) → NICAM MAIN
NICAM monaural	NICAM MAIN (Main sound) → MONO (Regular sound) → NICAM MAIN

When receiving an A2 program

▶ **KV-TG21M90 only** (Not used for this model)

Broadcasting	On-screen display (Selected sound)
A2 stereo	MONO (Regular sound) → STEREO (Stereo sound) → MONO
A2 bilingual	MAIN (Main sound) → SUB (Sub sound) → MAIN

Notes

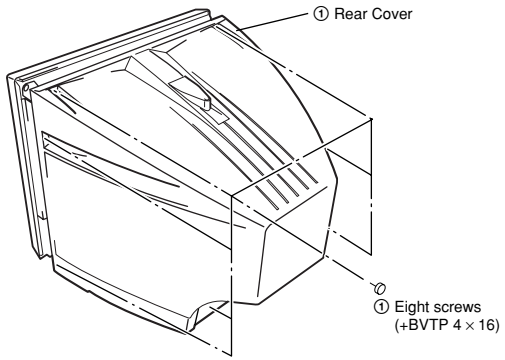
- If the sound is distorted when receiving a monaural program through the 𝕋 (antenna) terminal, press A/B repeatedly until "MONO" appears on the screen. To cancel the monaural sound setting, press A/B again until "AUTO" appears on the screen.

KV-TG21M90 only (Not used for this model)

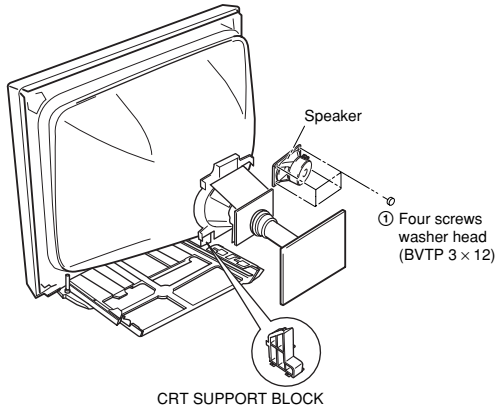
- If the stereo sound is noisy when receiving a stereo program, select "MONO". The sound becomes monaural, but the noise is reduced.
- Before receiving a NICAM stereo program in China, please check the NICAM broadcast condition in your area. When receiving a NICAM stereo program, the receiving conditions might vary depending on area. In addition, different strength of the NICAM broadcast signal might affect the receiving quality.

SECTION 2
DISASSEMBLY

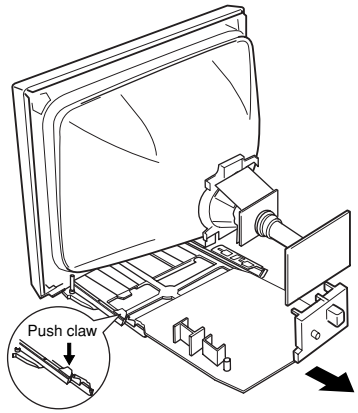
2-1. REAR COVER REMOVAL



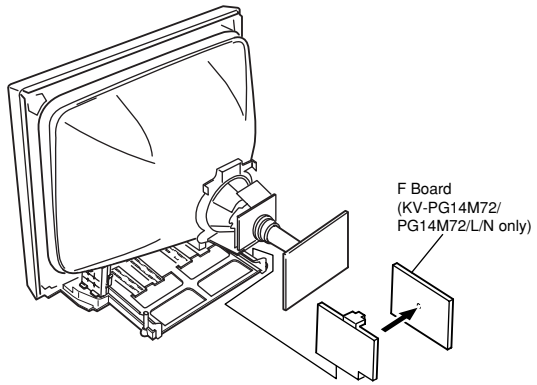
2-2. SPEAKER REMOVAL



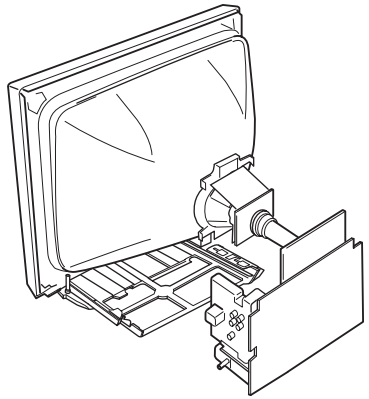
2-3. CHASSIS ASSY REMOVAL



2-4. F BOARD REMOVAL



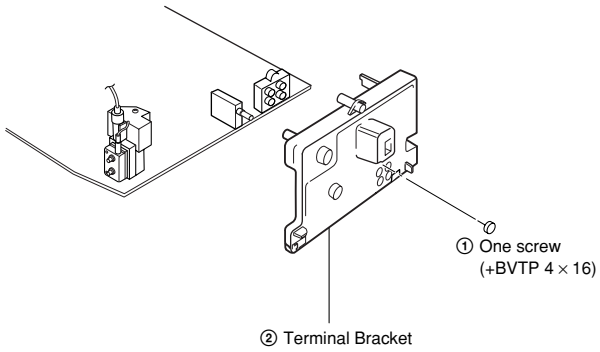
2-5. SERVICE POSITION



Caution: Do not take out CRT support block while TV set in standing position.

Note: Undress necessary wires that creates tension while placing the chassis into Service Position.

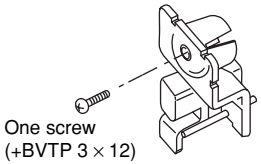
2-6. TERMINAL BRACKET REMOVAL



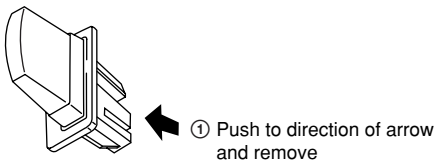
2-7. REPLACEMENT OF PARTS

For replacements of light guide,unscrew them, exchange with new parts and fix them with screws respectively.

2-7-1. Replacement of Light Guide



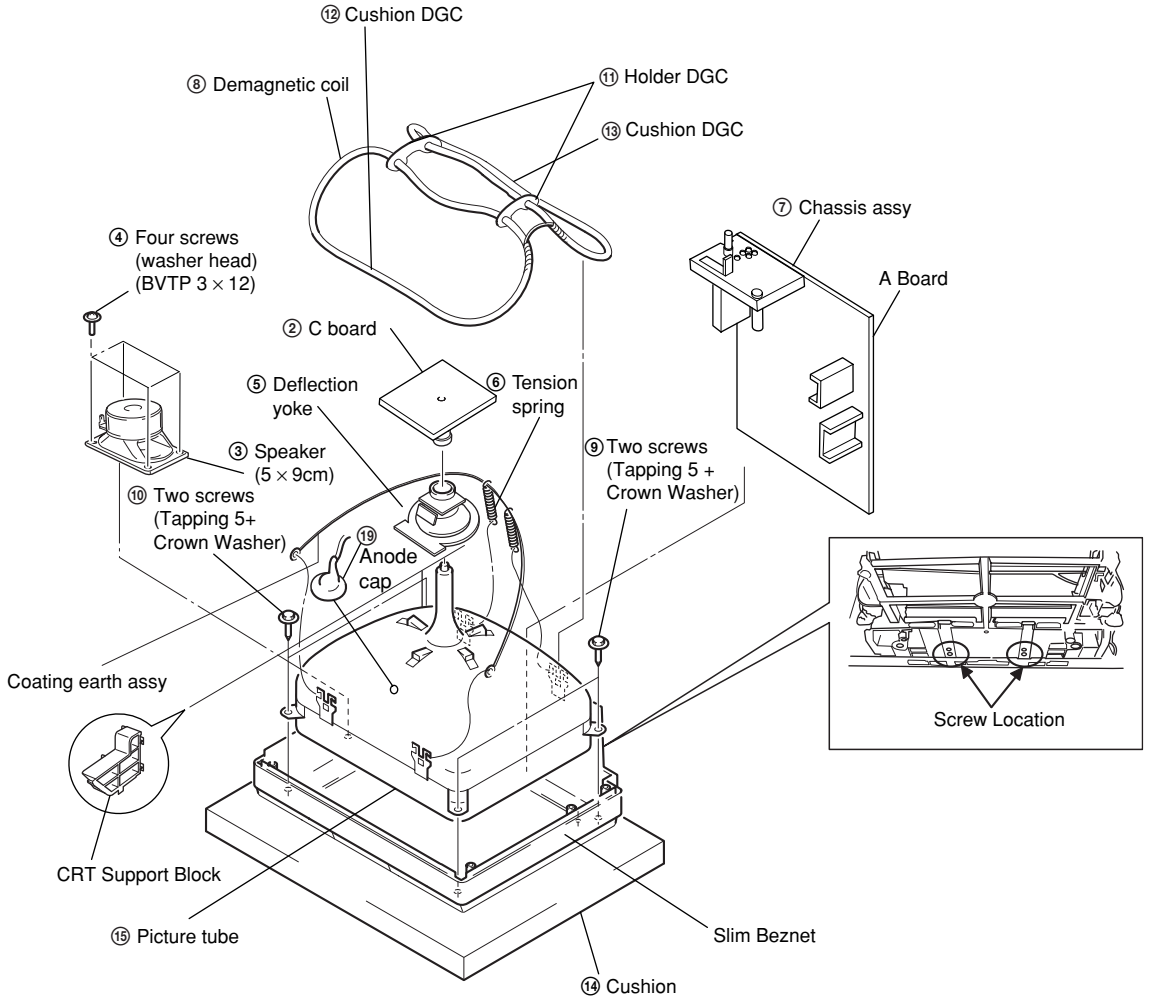
2-7-2. Replacement of Power Button



2-8. PICTURE TUBE REMOVAL

Note:

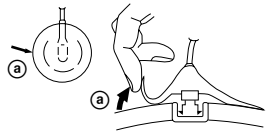
- Please make sure the TV set is not in standing position before removing necessary CRT support located on bottom right and left.



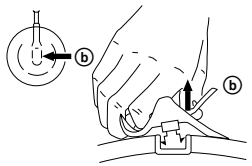
• REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

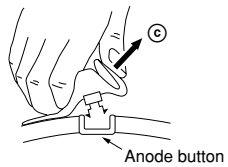
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



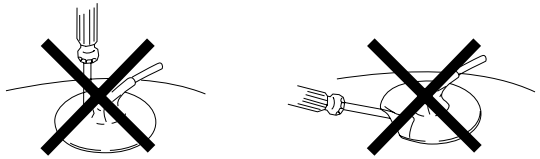
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ.

- **HOW TO HANDLE AN ANODE-CAP**

① Do not damage the surface of anode-caps with sharp shaped objects.
② Do not press the rubber too hard so as not to damage the inside of anode-cap. A metal fitting called the shatter-hook terminal is built into the rubber.
③ Do not turn the foot of rubber over too hard. The shatter-hook terminal will stick out or damage the rubber.



SECTION 3
SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:

PICTURE control ..... normal
BRIGHTNESS control ..... normal

Perform the adjustments in the following order :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Pattern Generator
2. Degausser
3. Oscilloscope

Preparation :

In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input a white signal with the pattern generator.
   Contrast } normal
   Brightness }
2. Set the pattern generator raster signal to a green raster.
3. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side. (See Figures 3-1 through 3-4.)
4. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 3-1.)
5. Switch the raster signal to blue, then to red and verify the condition.
6. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws and DY spacers.
7. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Figure 3-4.)

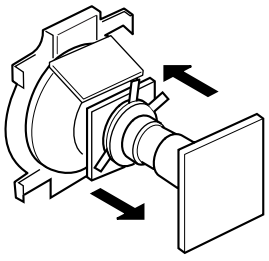


Fig. 3-1

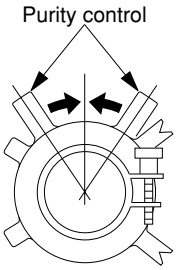


Fig. 3-2

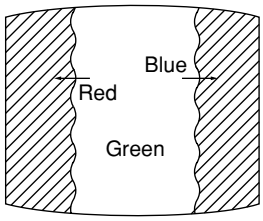


Fig. 3-3

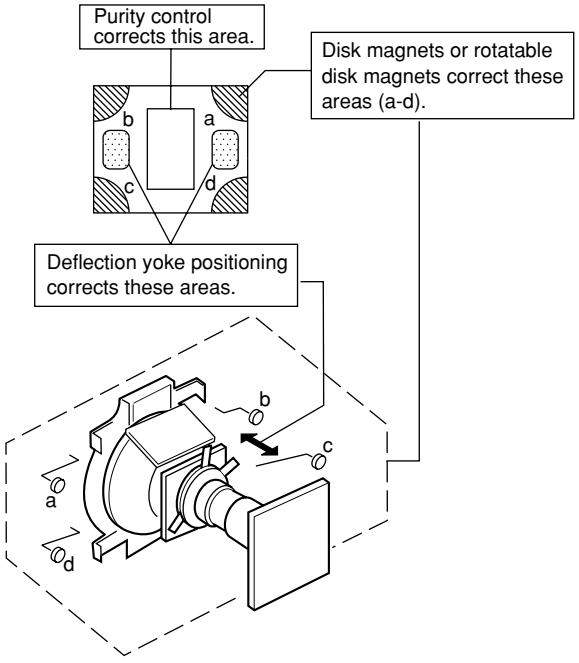


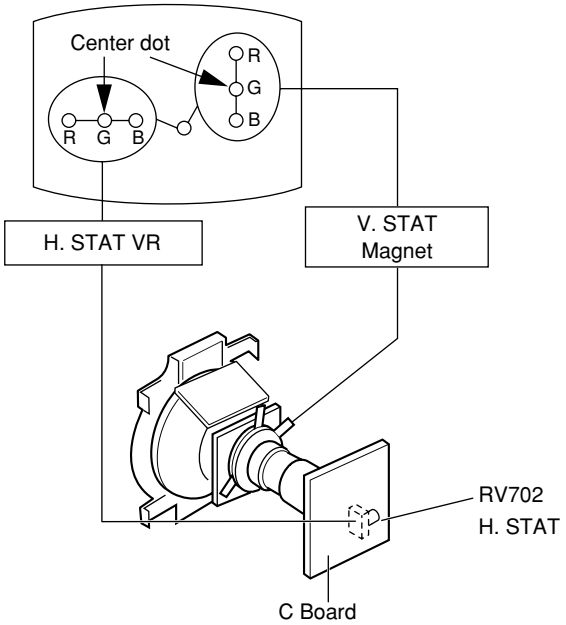
Fig. 3-4

3-2. CONVERGENCE

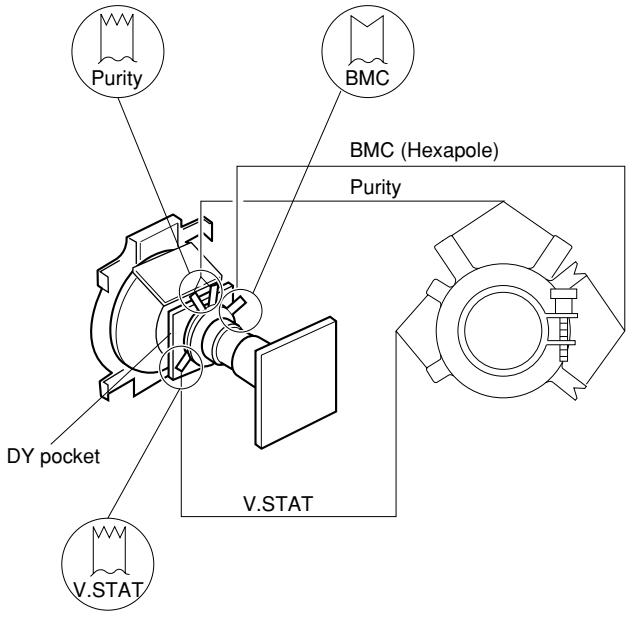
Preparation :

- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Receive dot/hatch signal.
- Pic mode: Soft.

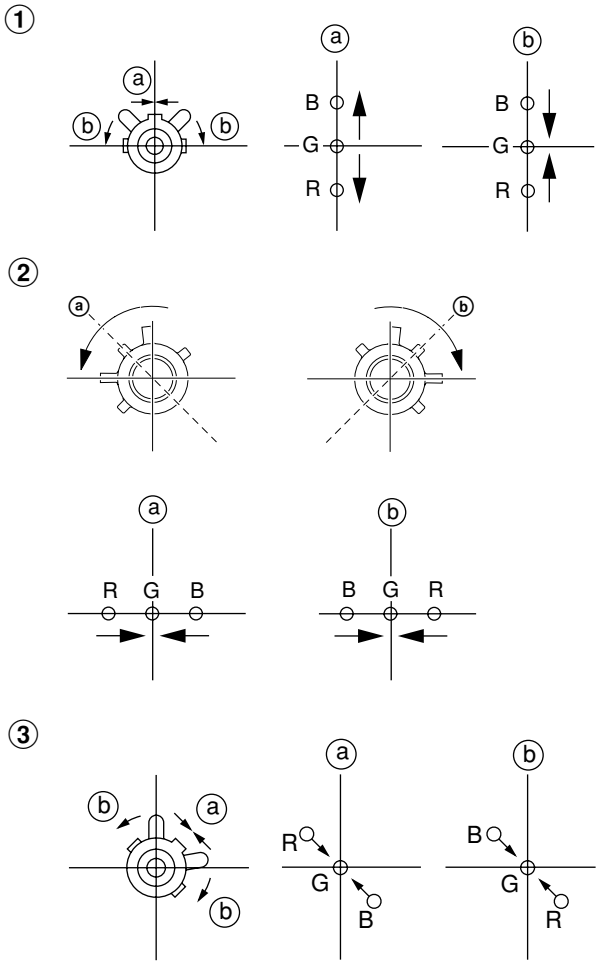
(1) Horizontal and Vertical Static Convergence



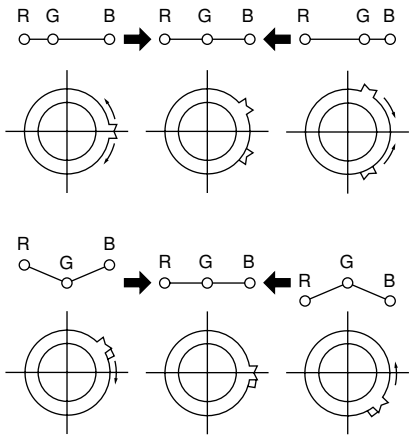
1. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving horizontally), adjust the H.STAT VR control so that the red, green and blue dots are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green and blue dots together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
   (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other, so be sure to perform adjustments while tracking.)



- Operation of V. Stat magnet
  If the V. Stat magnet is moved in the "a" and "b" arrows, the red, green and blue dots move as shown below.



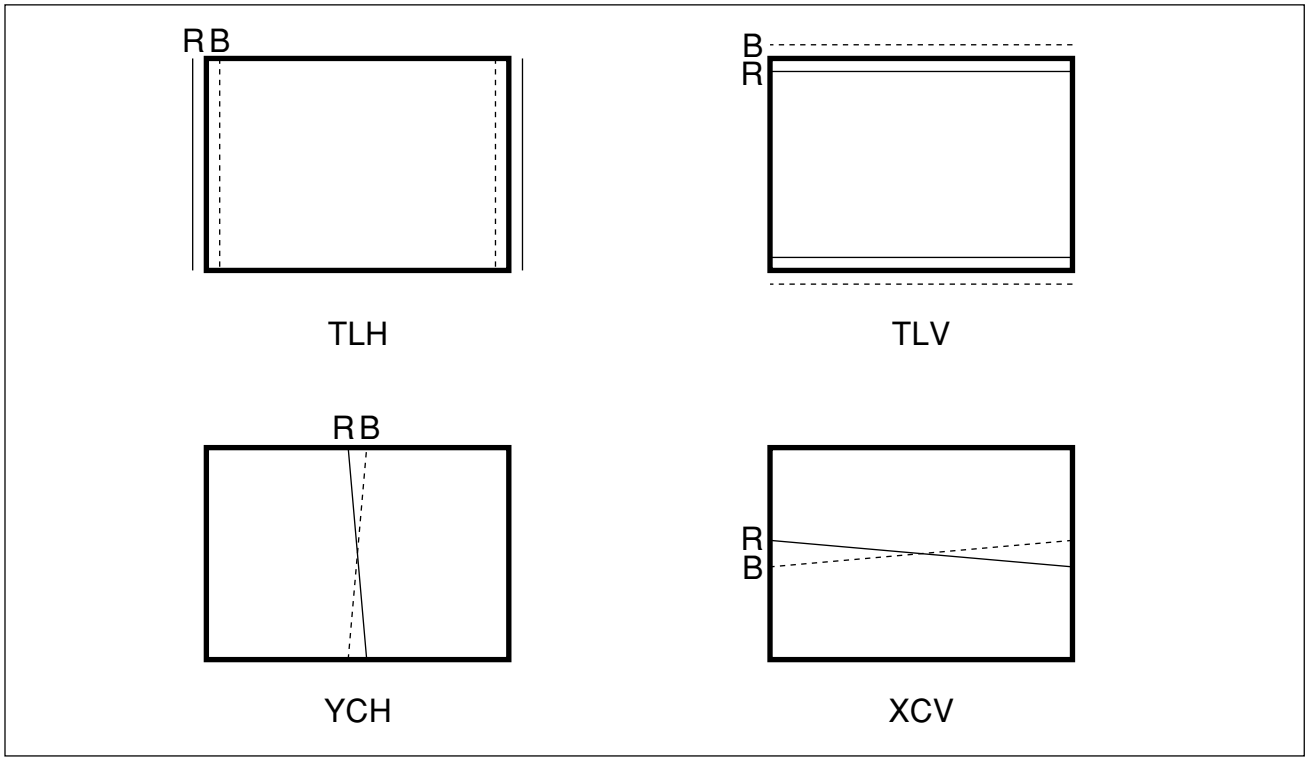
④ BMC (Hexapole) Magnet.
If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.



(2) Dynamic Convergence Adjustment

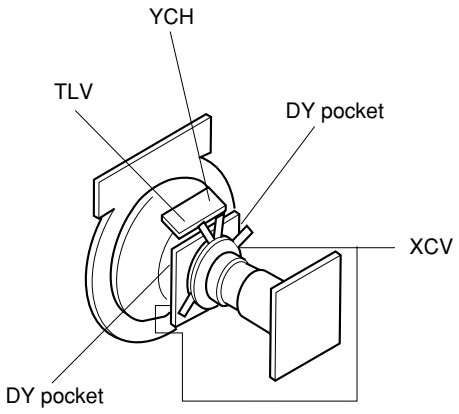
Preparation:

Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence

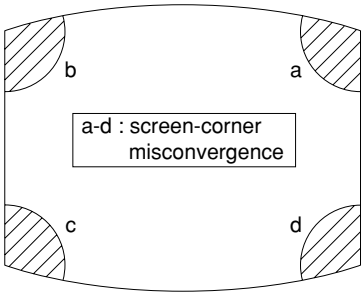


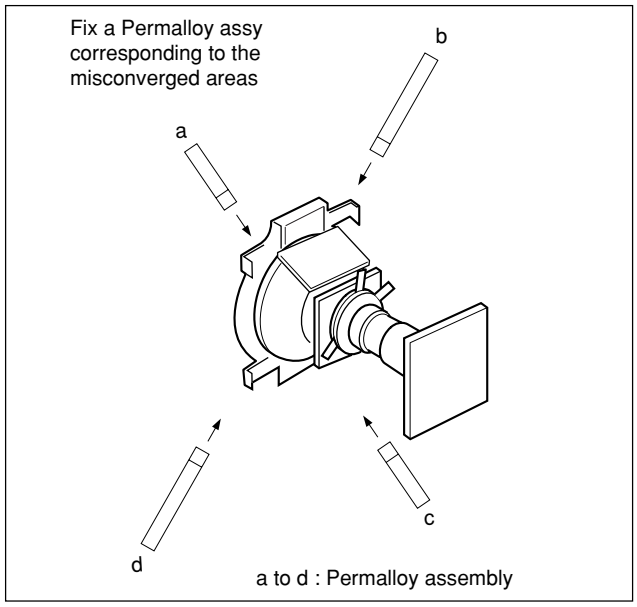
TLH	Insert	TLH	Correction Plate to DY Pocket (Left or Right)
YCH	Rotate	YCH	VOL on DY
TLV	Rotate	TLV	VOL ON DY
XCV	Rotate	XCV	Adj core on DY

ON DY:



(3) Screen-corner Convergence

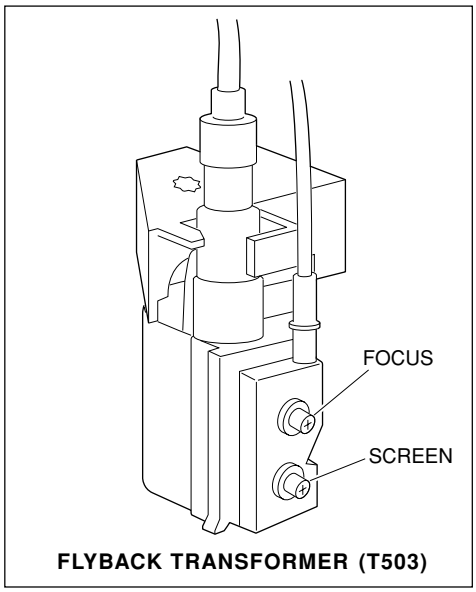




3-3. FOCUS ADJUSTMENT

FOCUS adjustment should be completed before W/B adjustment.

1. Receive digital monoscope pattern.
2. Set "Picture Mode" to "DYNAMIC".
3. Adjust focus VR so that the center of screen becomes just focus.
4. Change the receiving signal to white pattern and blue back.
5. Confirm magenta ring is not noticeable. Incase magenta is very obvious, adjust focus VR to take balance of magenta ring and focus.

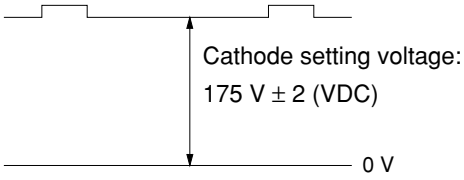


FLYBACK TRANSFORMER (T503)

3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT

1) Set the PICTURE to normal.
2) Put to VIDEO input mode without signals.
3) Connect R, G and B of the C board cathode to the oscilloscope.
4) Adjust BRIGHTNESS to obtain the cathode voltage to the value below.
5) Adjust G2 (screen) on the FBT until picture shows the point before cut off.

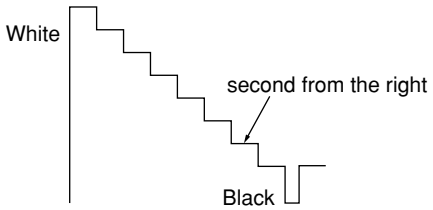


2.a) WHITE BALANCE ADJUSTMENT

1) Set to Service Mode (Refer Section 4-1: ADJUSTMENTS WITH COMMANDER).
2) Input white raster signal.
3) Set 49 (ABL) and IF (VP2) service mode to 00.
4) Set Picture to DYNAMIC.
5) Select OB (RDR) with [1] and [4], and set the level to 25 with [3] and [6] for best white balance.
6) Select OC 'GDR' and OD 'BDR' with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
7) Write into the memory by pressing [MUTING] then [0].
8) Set back 49 'ABL' and IF 'VP2' service mode to original data.

2.b) SUB BRIGHT ADJUSTMENT

1) Set to service mode.
2) Set 49(ABL) and IF (VP2) service mode to 00
3) Input a staircase signal of black to white from the pattern generator.
4) BRIGHTNESS .... 50%.
   PICTURE ..... MINIMUM
5) Select OE 'SBR' with [1] and [4], and adjust OE 'SBR' level with [3] and [6] so that the second stripe from the right is dimly lit.
6) Write into the memory by pressing [MUTING] then [0].
7) Set back 49 (ABL) and IF (VP2) service mode to original data.



SECTION 4
CIRCUIT ADJUSTMENTS

4-1. ADJUSTMENT WITH COMMANDER

Service adjustments to this model can be performed using the supplied Remote Commander RM-952

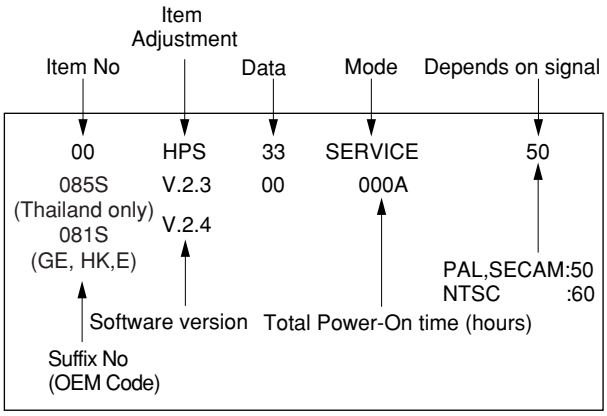
a. ENTERING SERVICE MODE

With the unit on standby

→ [DISPLAY] → [5] → [VOL (+)] → [POWER]

This operation sequence puts the unit into service mode.

The screen display is :



b. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press [POWER] button on the commander), then press [POWER] button again, hereupon it becomes TV mode.

c. METHOD OF WRITE INTO MEMORY

1) Set to Service Mode.
2) Press [1] (UP) and [4] (DOWN), to select the adjustment.
4) Press [MUTING] button to indicate WRITE on the screen.
5) Press [0] button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
2) Turn the power switch ON and set to Service Mode.
3) Call the adjusted items again to confirm adjustments were made.

[1], [4] ↓	Select the adjustment item.
[3], [6] ↓	Raise/lower the data value.
[MUTING] ↓	Writes.
[0]	Executes the writing.

e. OTHER FUNCTION VIA REMOTE COMMANDER

[7], [0]	All the data becomes the values in memory.
[8], [0]	All user control goes to the standard state.
[5], [0]	Service data initialization (Be sure not to use usually.)
[2], [0]	Copy and write all data.
[MUTE], [0]	Write 50Hz adjustment data to 60Hz or vice versa.

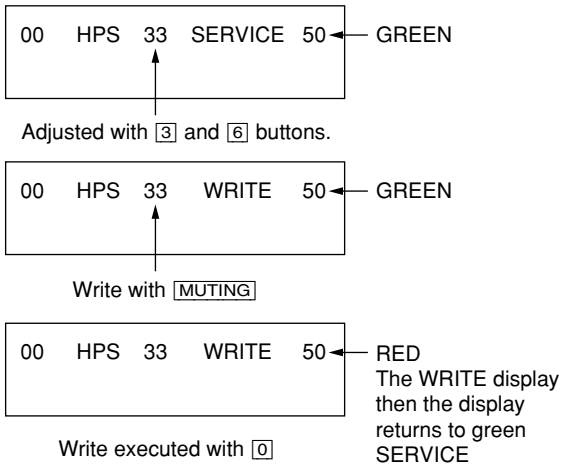
4-2. ADJUSTMENT METHOD

Item Number 00 HPS

This explanation uses H Shift as an example.

1. Select "00 HPS" with the [1] and [4] buttons.
2. Raise/lower the data with the [3] and [6] buttons.
3. Select the optimum state. (The standard is 1F for PAL reception.)
4. Write with the [MUTING] button. (The display changes to WRITE.)
5. Execute the writing with the [0] button. (The WRITE display will be changed to red color while excuting, and back to SERVICE.)

Example on screen display :-


00 HPS 33 SERVICE 50
GREEN
Adjusted with 3 and 6 buttons.
00 HPS 33 WRITE 50
GREEN
Write with MUTING
00 HPS 33 WRITE 50
RED
The WRITE display then the display returns to green SERVICE
Write executed with 0

Use the same method for all Items. Use [1] and [4] to select the adjustment item, use [3] and [6] to adjust, write with [MUTING], then execute the write with [0].

Note : 1. In [WRITE], the data for all items are written into memory together.
2. For adjustment items that have different standard data between 50Hz or 60Hz, be sure to use the respective input signal after adjustment.

Adjustment Item Table

Functionality		Init.	Range	Function	Table & Note	Device Name													
No.	Name						Common	50	60	SECAM	NTSC	PAL	TV	Video	Teletext	M system	Non- M system	Dynamic	Others
00	HPS	2A	3F	H Shift	50/60Hz	TDA8843/44		2A	2A										
01	HSZ	1F	3F	H Size	50/60Hz			1F	1F										
02	PAP	1F	3F	Pin Amplitude	50/60Hz			1F	1F										
03	CPN	1F	3F	Corner Pin	50/60Hz			1F	1F										
04	TLT	1F	3F	Tilt	50/60Hz			1F	1F										
05	VSL	26	3F	V Slope	50/60Hz			26	26										
06	VAP	0F	3F	V Amplitude	50/60Hz			0F	0F										
07	SCO	0F	3F	S Correction	50/60Hz			0F	0F										
08	VPS	1F	3F	V Shift	50/60Hz			1F	1F										
09	VZM	19	3F	Vertical Zoom			19												
0A	VSC	1F	3F	Vertical Scroll	50/60Hz			1F	1F										
0B	RDR	1F	3F	R Drive	Dynamic/Others													1F	24
0C	GDR	25	3F	G Drive	Dynamic/Others													25	25
0D	BDR	25	3F	B Drive	Dynamic/Others													25	20
0E	SBR	58	7F	Sub Brightness			58												
0F	PMX	20	3F	Picture Maximum Data	TV/Video/Teletext								20	20	20				
10	PMI	04	3F	Picture Minimum Data			04												
11	SHU	07	0F	Sub Hue	TV/Video								07	09					
12	SSH	01	03	Sub Sharpness	TV/Video								01	03					
13	SC1	20	3F	Sub Color Lower	50/60Hz			20	1C										
14	SC2	08	3F	Sub Color Higher	50/60Hz			08	0B										
15	FO	00	03	01 Time Constant	TV/Video/Teletext								00	00	00				
16	AGT	00	3F	AGC Take Over	TV/Video/Teletext								00	00	00				
17	VSW	00	01	Video Mute Switch	TV/Video/Teletext								00	01	00				
18	FOR	03	03	Forced Field Frequency			03												
19	DL	00	01	De-interlace			00												
1A	POC	00	01	Fixed 01 Synchro. Mode			00												
1B	COR	01	01	Noise Coring	TV/Video/Teletext								01	00	00				
1C	RBL	00	01	RGB Blanking	TV/Video/Teletext								00	00	00				
1D	YDL	0A	0F	Y-Delay	PAL/NTSC/SECAM					06	0C	0A							
1E	VP1	00	FF	Extra Bits (see below)			00												
1F	VP2	01	FF	Extra Bits (see below)			01												
20	VP3	0F	FF	Extra Bits (see below)			0F												
21	WST	15	FF	W/G Stereo Threshold		MSP3417G (80)	15												
22	WBT	EC	FF	W/G Bilingual Threshold			EC												
23	WLL	05	FF	W/G Monaural Threshold			05												
24	WAC	01	0F	W/G Agreement Count			01												

Adjustment Item Table

Functionality No.	Functionality Name	Init.	Range	Function	Table & Note	Device Name	Common	50	60	SECAM	NTSC	PAL	TV	Video	Teletext	M system	Non- M system	Dynamic	Others
25	WDL	30	FF	W/G Search Delay		MSP3417G	30												
26	NDL	20	FF	NICAM Search Delay			20												
27	SDL	10	FF	Stereo Status Read Delay			10												
28	AGC	01	01	AGC Switch auto/constant			01												
29	REL	28	3F	AGC Gain at Constant Mode			28												
2A	CRM	00	01	Carrier Muting on/off			00												
2B	ACO	01	01	Audio Clock-out on/off			01												
2C	FP	1B	7F	FM Prescale for B/G, I, D/K			1B												
2D	FPM	32	7F	FM Prescale for M			32												
2E	FH	36	7F	FM Prescale for HDEV (non-M)			36												
2F	FHM	65	7F	FM Prescale for HDEV (M)			65												
30	WGP	1C	7F	W/G Prescale			1C												
31	NIP	7F	7F	NICAM Prescale			7F												
32	ERR	50	FF	Auto FM Switch Threshold			50												
33	VOL	6D	7F	DFP Volume Maximum			6D												
34	ING	00	0F	Input Gain	M System/non-M/Video	TDA7438								00		00	00		
35	VOM	00	3F	Volume Output Gain	M System only		00												
36	BCS	01	03	Bass Center Shift			01												
37	TCS	02	03	Treble Center Shift			02												
38	TXH	2A	FF	Horizontal Display Position		SAA5264	2A												
39	TXV	27	3F	Vertical Display Position (line offset from V-sync)			27												
3A	THD	00	7F	H-sync Active Edge Shift			00												
3B	TVD	3F	7F	V-sync Active Edge Shift			3F												
3C	HPL	01	01	H-sync Polarity Configuration	00 : Positive, 01 : Negative		01												
3D	VPL	01	01	V-sync Polarity Configuration	00 : Positive, 01 : Negative		01												
3E	FPL	01	01	Field Polarity Configuration	00 : V-sync second half line, 01 : V-sync first half line		01												
3F	FMD	00	03	Force Mode	00 : Auto, 01 : Default, 02 : Fastext, 03 : Top mode		00												
40	TBR	08	0F	Set Teletext RGB Brightness			08												
41	NOP	01	0F	National Option Table Configuration			01												
42	TCH	01	03	Twisted Character Set Configuration			01												
43	BKP	00	3F	Picture Data at Blanking OFF		Other Control	00												
44	ODL	10	FF	Power ON Delay			10												
45	OSH	0A	3F	OSD H Position			0A												
46	TSY	00	03	Tv System at Auto Preset	00 : B/G, 01 : I, 02 : D/K, 03 : M		00												
47	DKS	01	01	D/K Stereo enable/disable			01												
48	MUT	00	01	Muting on/off at No Sync			00												
49	ABL	01	01	Bright ABL Switch			01												
4A	SCM	01	01	SECAM Trap active/inactive			01												
4B	SLS	01	01	Activate SL.OR.IFI Sync			01												
4C	SSV	02	07	Space Sound Volume Step Up			02												
4D	VPW	35	7F	Timer of Video Processor start up wait			35												
4E	OP1	2F	FF	Optional Flags 0 (see below)			28												
4F	OP2	0F	FF	Optional Flags 1 (see below)			9D												
50	OP3	00	FF	Optional Flags 2 (see below)			A0												

NOTE

- Standard data listed on the Adjustment Item Table are reference values, therefore it may be different for each model and for each mode.
- Note for Different Data Those are the standard data values written on the microprocessor. Therefore, the data values of the modes and stored respectively in the memory.
  In case of a device replacement, adjustment by rewriting the data value is necessary for some items.

ITEM INFORMATION

No. 1E VP1

Item	BCO	OSO	SBL	HBL	FCO	FFI
KV-PG14M40	0	0	0	0	0	0
KV-PG14M72	0	0	0	0	0	0
KV-PG14M72/L	0	0	0	0	0	0
KV-PG14M72/N	0	0	0	0	0	0
KV-PG14P42	0	0	0	0	0	0
KV-PG14P42/G	0	0	0	0	0	0
KV-PG14P42/L	0	0	0	0	0	0
KV-PG14P42/N	0	0	0	0	0	0
KV-PG14P70	0	0	0	0	0	0

BCO	Switch-on behaviour 1 = Switch-on of picture via unternal delay 0 = Without delay	00(4)
OSO	1 = Switch-off in vertical overscan 0 = Switch-off undefind	18(7)
SBL	Service blanking 1 = on 0 = off	0B(7)
HBL	RGB Blanking Mode 1 = wide blanking, 0 = normal blanking	02(7)
FCO	Forced Color-on 1 = no colour killer 0 = normal colour killer function	1B(0)
FFI	Fast filler IF-PLL 1 = increased time constant 0 = normal time constant	1A(1)

No. 1F VP2

Item	MAT	DS	DSA	EBS	BLS	BKS
KV-PG14M40	0	0	0	0	0	1
KV-PG14M72	0	0	0	0	0	1
KV-PG14M72/L	0	0	0	0	0	1
KV-PG14M72/N	0	0	0	0	0	1
KV-PG14P42	0	0	0	0	0	1
KV-PG14P42/G	0	0	0	0	0	1
KV-PG14P42/L	0	0	0	0	0	1
KV-PG14P42/N	0	0	0	0	0	1
KV-PG14P70	0	0	0	0	0	1

MAT	PAL-SECAM-/NTSC Matrix 1 = PAL matrix, 0 = adapted to standard	0E(7)
DS	Dynamic skin control on/off 1 = on 0 = off	1A(3)
DSA	Dynamic skin control angle 1 = correction angle 117 degrees 0 = correction angle 123 degrees	1A(2)
EBS	Extended Blue Stretch 1 = on 0 = off	1A(0)
BLS	Blue stretch 1 = on 0 = off	18(4)
BKS	Black stretch 1 = on 0 = off	18(3)

No. 20 VP3

Item	BB	AKB	BPS	CB	ACL	CL2	CL1	CLO
KV-PG14M40	0	0	0	0	1	0	0	0
KV-PG14M72	0	0	0	0	1	0	0	0
KV-PG14M72/L	0	0	0	0	1	0	0	0
KV-PG14M72/N	0	0	0	0	1	0	0	0
KV-PG14P42	0	0	0	0	1	0	0	0
KV-PG14P42/G	0	0	0	0	1	0	0	0
KV-PG14P42/L	0	0	0	0	1	0	0	0
KV-PG14P42/N	0	0	0	0	1	0	0	0
KV-PG14P70	0	0	0	0	1	0	0	0

BB	Blue back when no video signal is identified 1 = on 0 = off	18(0)
AKB	Black current stabilisation 1 = not active 0 = active	02(6)
BPS	Bypass of chroma base-band delay line 1 = bypassed 0 = active	19(6)
CB	Chroma bandpass centre frequency 1 = 1.1xFsc 0 = Fsc	18(5)
ACL	Automatic colour limiting 1 = active 0 = not active	19(5)

CL2	CL1	CL0	Cathode Drive amplitude
0	0	0	57V
0	0	1	63V
0	1	0	70V
0	1	1	77V
1	0	0	84V
1	0	1	91V
1	1	0	99V
1	1	1	107V

No. 4E OP1

Item	HA ME VOL	AV INPUT	COMB	B/G	I	D/K	M
KV-PG14M40	0	1	0	1	1	1	1
KV-PG14M72	0	1	0	1	1	1	1
KV-PG14M72/L	0	1	0	1	1	1	1
KV-PG14M72/N	0	1	0	1	1	1	1
KV-PG14P42	0	1	0	1	0	0	0
KV-PG14P42/G	0	1	0	1	0	0	0
KV-PG14P42/L	0	1	0	1	0	0	0
KV-PG14P42/N	0	1	0	1	0	0	0
KV-PG14P70	0	1	0	1	0	0	0

HA ME Vol — Tone controller Volume curve setting. 1 = for HA(ME), 0 = for HA(GE)

AV Input — 00 = no AV Input model 01 = 1 AV Input model
10 = 2 AV Input model 11 = Not available

COMB (for NTSC model) — 1 = Enable external comb filter, 0 = Disable external comb filter

Other optional function will be enabled if the corresponding bit is set to 1.

No. 4F OP2

Item	NO NICAM	US ST	HDEV	IV-CURVE	XTAL SEL	SECAM	2nd LANGUAGE
KV-PG14M40	1	0	0	0	1	1	1
KV-PG14M72	1	0	0	0	1	1	1
KV-PG14M72/L	1	0	0	0	1	1	1
KV-PG14M72/N	1	0	0	0	1	1	1
KV-PG14P42	1	0	0	0	1	0	1
KV-PG14P42/G	1	0	0	0	1	0	1
KV-PG14P42/L	1	0	0	0	1	0	1
KV-PG14P42/N	1	0	0	0	1	0	1
KV-PG14P70	1	0	0	0	1	0	1

No NICAM — 1 = NICAM search is disable in any TV system, 0 = NICAM search operates

US ST — (Reserved for NTSC model)

1 V-Curve (for monaural model) — 1 = using common volume curve for every mode and every TV system
0 = another volume curve available for video mode and M system

XTAL SEL — 00 = only 4.43 XTAL 01 = only 3.58 XTAL
10 = not used 11 = both 4.43 and 3.58 XTAL

Other optional function will be enabled if the corresponding bit is set to 1.

No. 50 OPB3

Item	PIC. ROT	AUTO TV SYS.	NO BAL.	SPC SOUND	KOREAN ST	VM	H. K. BIL	THAI BIL
KV-PG14M40	0	0	0	0	0	0	0	0
KV-PG14M72	0	0	0	0	0	0	0	0
KV-PG14M72/L	0	0	0	0	0	0	0	0
KV-PG14M72/N	0	0	0	0	0	0	0	0
KV-PG14P42	0	0	1	0	0	0	0	1
KV-PG14P42/G	0	0	1	0	0	0	0	1
KV-PG14P42/L	0	0	1	0	0	0	0	1
KV-PG14P42/N	0	0	1	0	0	0	0	1
KV-PG14P70	0	0	0	0	0	0	0	0

No Bal. (for AV stereo model): 1 = no balance in analog select items, 0 = balance included
SPC SOUND: 1 = Space Sound available, 0 = not available
Korean ST: (Reserved for NTSC model)
H.K. Bil (for monaural model): 1 = NICAM bilingual available (No NICAM stereo), 0 = not available
Other optional function will be enabled if the corresponding bit is set to 1.

OPERATION GUIDE

SERVICE MODE

How to set up new NVM (or initialize already written one)
(1) AC ON
(2) Enter Service Mode - describing below how to enter
(3) Push the commander button “5” and “0” sequentially (only set initial data into RAM, but not write them into NVM yet)
(4) Push the commander button “2” and “0” sequentially (copy the data into all NVM area - all wide modes and 50/60Hz respectively)
(5) Push the commander button “8” and “0” sequentially (initialize user data, select program 1 and exit Service Mode)
(6) Select TV system and execute Auto Preset

How to enter Service Mode
- At power ON, push the commander button “test” and “TV ON” sequentially
- At stand-by, push the commander button “display”, “5”, “vol +” and “power” sequentially

How to exit Service Mode
- Push the commander button “other ON” or power (AC) OFF

How to increment/decrement items and data
- Items : push the commander button “1” / “4”
- Data : push the commander button “3” / “6” (not write into NVM)

Other operations
- Write data into NVM - push the commander button “mute” and “0” sequentially
- Read data from NVM - push the commander button “7” and “0” sequentially
- Copy 50Hz data into 60Hz area - push the commander button “display” and “0” sequentially

SELF DIAGNOSIS MODE

How to enter Self Diagnosis Mode
- At stand-by, push the commander button “display”, “5”, “vol-” and “power” sequentially

How to exit Self Diagnosis Mode
- Push the commander button “other ON” or power (AC) OFF

Other operations
- Clear data and Write into NVM - push the commander button “8” and “0” sequentially

HOTEL TV MODE

How to enter Hotel TV Mode ON stage
- At stand-by, push the commander button “display”, “MUTE”, “vol +” and “power” sequentially
- The Hotel TV setup display, where the maximum level of the volume can be applied (=35 or above)
- Write data into NVM - push the commander button “mute” and “0” sequentially

How to enter Hotel TV Mode OFF stage
- At stand-by, push the commander button “display”, “MUTE”, “vol -” and “power” sequentially
- Write data into NVM - push the commander button “mute” and “0” sequentially

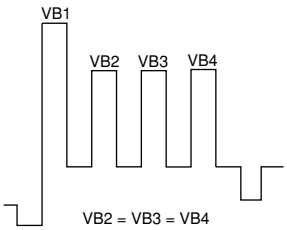
Modification Note

The item including the new addition is yellow.

4-3. PICTURE QUALITY ADJUSTMENT

SUB COLOR ADJUSTMENT

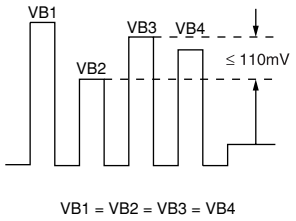
1. Select Video.
2. Input a PAL color-bar.
3. Set to the following condition:
   PICTURE 100%, BRIGHTNESS 50%, COLOR 50%
4. Connect an oscilloscope to pin ① (B OUT) of CN300, A board.
5. Set to Service Mode and select 13 'SC1' with [1] and [4] of the commander then adjust to VB2=VB3=VB4 with [3] and [6].
6. Press [MUTING] → [0] of the commander to write the data.
7. Adjust 13 'SC1' as step 2 to 5 when receiving NTSC color-bar.



VB2 = VB3 = VB4 (Difference is within 70mV)

SUB HUE ADJUSTMENT

1. Select Video.
2. Input a NTSC 3.58, color-bar into Video/TV mode.
3. Set the following condition:
   PICTURE 100%, BRIGHTNESS 50%, COLOR 50%
4. Connect an oscilloscope to pin ① (B OUT) of CN300, A board.
5. Select 11"SHU" with [1] and [4] of the commander by setting to Service Mode and adjust to VB1=VB2=VB3=VB4 with [3] and [6] .



   The highest level of VB1,VB2,VB3,VB4 must be aligned at the same line. Ideal difference level between VB2 and VB3 should be within ± 110mV.
6. Press [MUTING] → [0] of the commander to write the data.
7. Select TV channel with NTSC 3.58 and repeat 3 to 5.
8. Press [MUTING] → [0] of the commander to write the data.
9. Single system model with NTSC 4.43, select TV channel with NTSC 4.43 and repeat 3 to 5.

4-4. DEFLECTION ADJUSTMENT

NORMAL MODE (50Hz)

1. Set to Service mode.
2. Input PAL color bar.
3. Using the [1] and [4] button, select category GEO (Service Mode).
4. Raise/lower the data using the [3] and [6] buttons.
   Select and adjust the following items to obtain optimum image.

Service Item

GEO :	00	HPS	H POSITION
	01	HSZ	H SIZE
	02	PAP	PIN AMPLITUDE
	03	CPN	CORNER PIN
	04	TLT	TILT
	05	VSL	V SLOPE
	06	VAP	VERTICAL AMPLITUDE
	07	SCO	S CORRECTION
	08	VPS	V SHIFT

NORMAL MODE (60Hz)

5. Input 525/60Hz signal.
6. Using the [1] and [4] buttons select category GEO (Service Mode).
7. Select and adjust the following items to obtain obtimum image.
   Raise/lower the data with the [3] and [6] buttons.

Service Item

GEO :	00	HPS	H POSITION
	01	HSZ	H SIZE
	02	PAP	PIN AMPLITUDE
	03	CPN	CORNER PIN
	04	TLT	TILT
	05	VSL	V SLOPE
	06	VAP	VERTICAL AMPLITUDE
	07	SCO	S CORRECTION
	08	VPS	V SHIFT

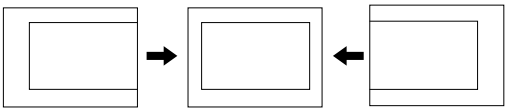
4-5. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

1. Enter to Service Mode.
2. Press commander buttons [5] and [0] (Data Initialize), and [2] and [0] (Data Copy) to initialize the data.
3. Call each item number and check if the respective screen shows the normal picture.
   In cases where items are not well adjusted, rectify the fine adjustment.
   Write the data per each item number ([MUTING] +[0]).
4. Select item numbers 4E 'OP0', 4F 'OP1', 50 'OP2' and respectively set the bit per model with command buttons [3] and [6] .
5. Press commander buttons [8] and [0] (Test Normal) to return to the data that was set on the shipment from the factory. (This will also cancel Service Mode.)

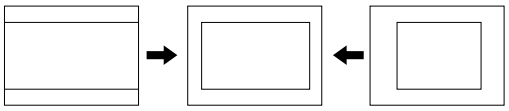
4-6. PICTURE DISTORTION ADJUSTMENT

Item Number 00 – 08

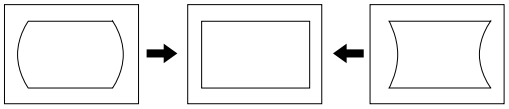
00 HPS (H POSITION)



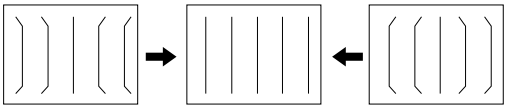
01 HSZ (H SIZE)



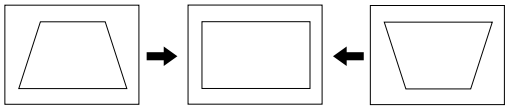
02 PAP (PIN AMPLITUDE)



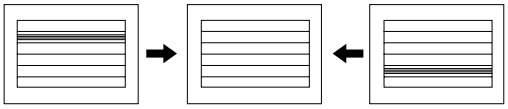
03 CPN (CORNER PIN)



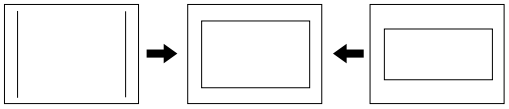
04 TLT (TILT)



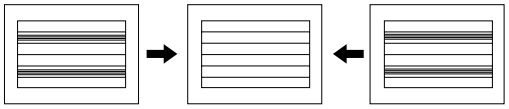
05 VSL (V SLOPE)



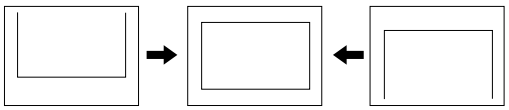
06 VAP (VERTICAL AMPLITUDE)



07 SCO (S CORRECTION)



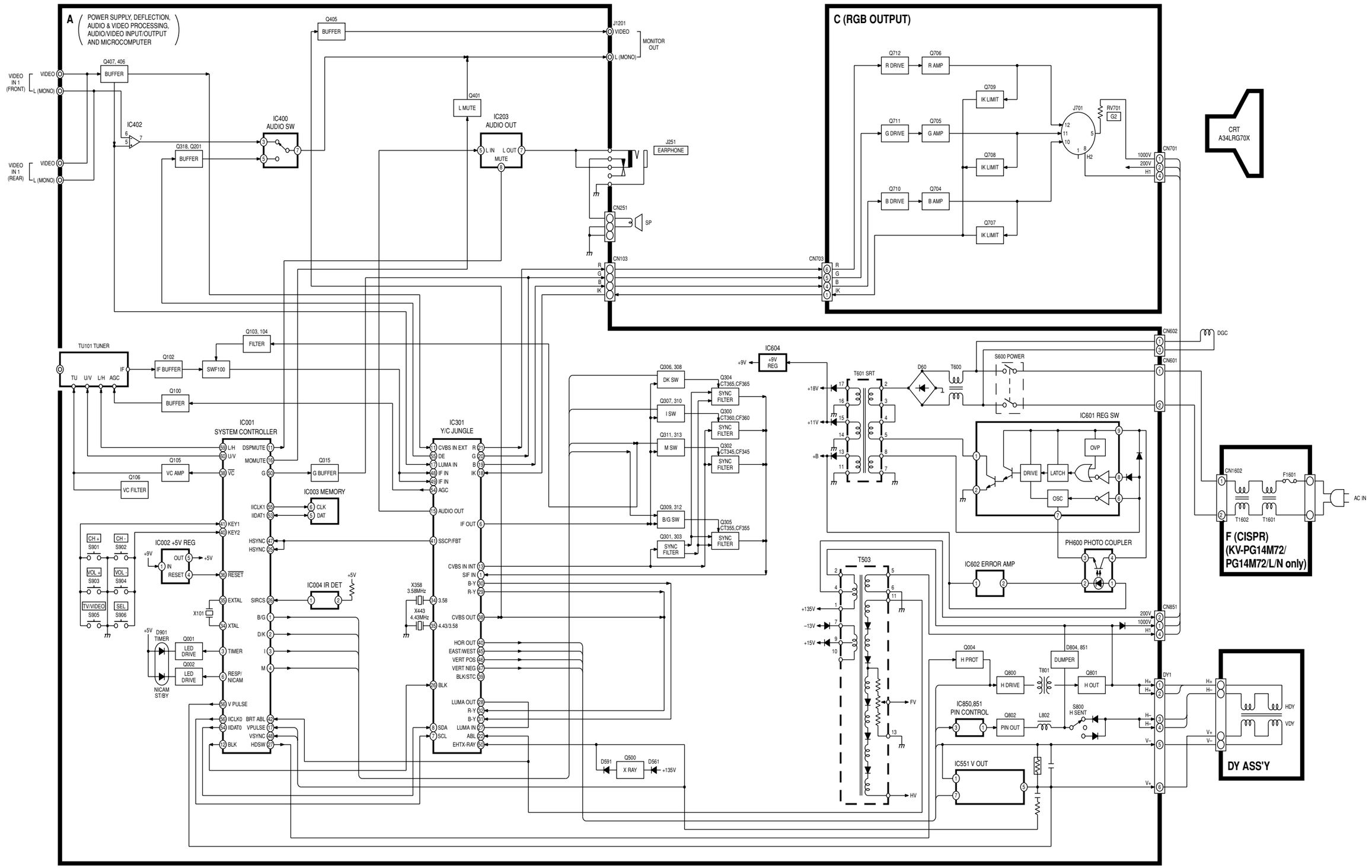
08 VPS (V SHIFT)



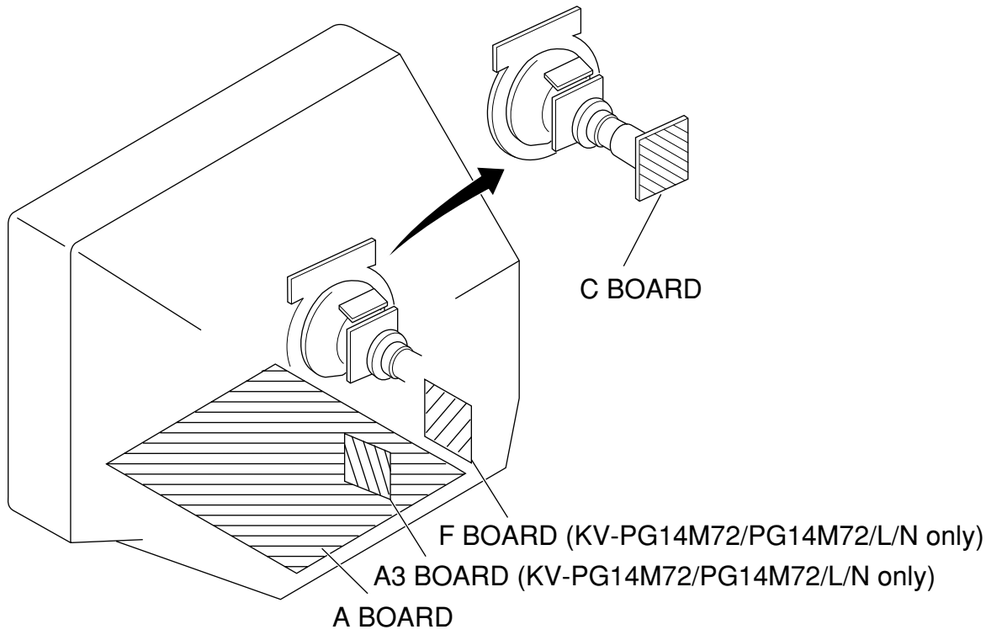
KV-PG14M40/PG14M72/L/N
KV-PG14P42/G/L/N/PG14P70
RM-952

SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM



5-2. CIRCUIT BOARDS LOCATION



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KV-PG14P42/G/L/N/PG14P70
RM-952

5-3. SCHEMATIC DIAGRAM

Note:

- All capacitors are in µF unless otherwise noted.
- All electrolytic capacitors are rated at 50V unless otherwise noted.
- All resistors are in ohms.
  kΩ = 1000Ω, MΩ = 1000kΩ
- Indication of resistance which does not have rating electrical power is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4W (CHIP: 1/10W)

- : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation or adjustment for rrepair.
- All variable and adjustable resistors have characteristic curve B unless otherwise noted.
- **Redings are taken with a color-bar signal input.**
  no mark : Common
  ( ) : PAL
  [ ] : NTSC 3.58
- **Readings are taken with a 10 MΩ digital multimeter.**
- **Voltage are dc with respect to ground unless otherwise noted.**
- **Voltage variations may be noted due to normal production tolerances.**
- **All voltage are in Volt.**
- **✻ : Cannot be measured.**
- **Circled numbers are waveform references.**
- **▬▬ : B +bus.**
- **▪ ▪ ▪ : B –bus.**
- **⇨ : signal path.**

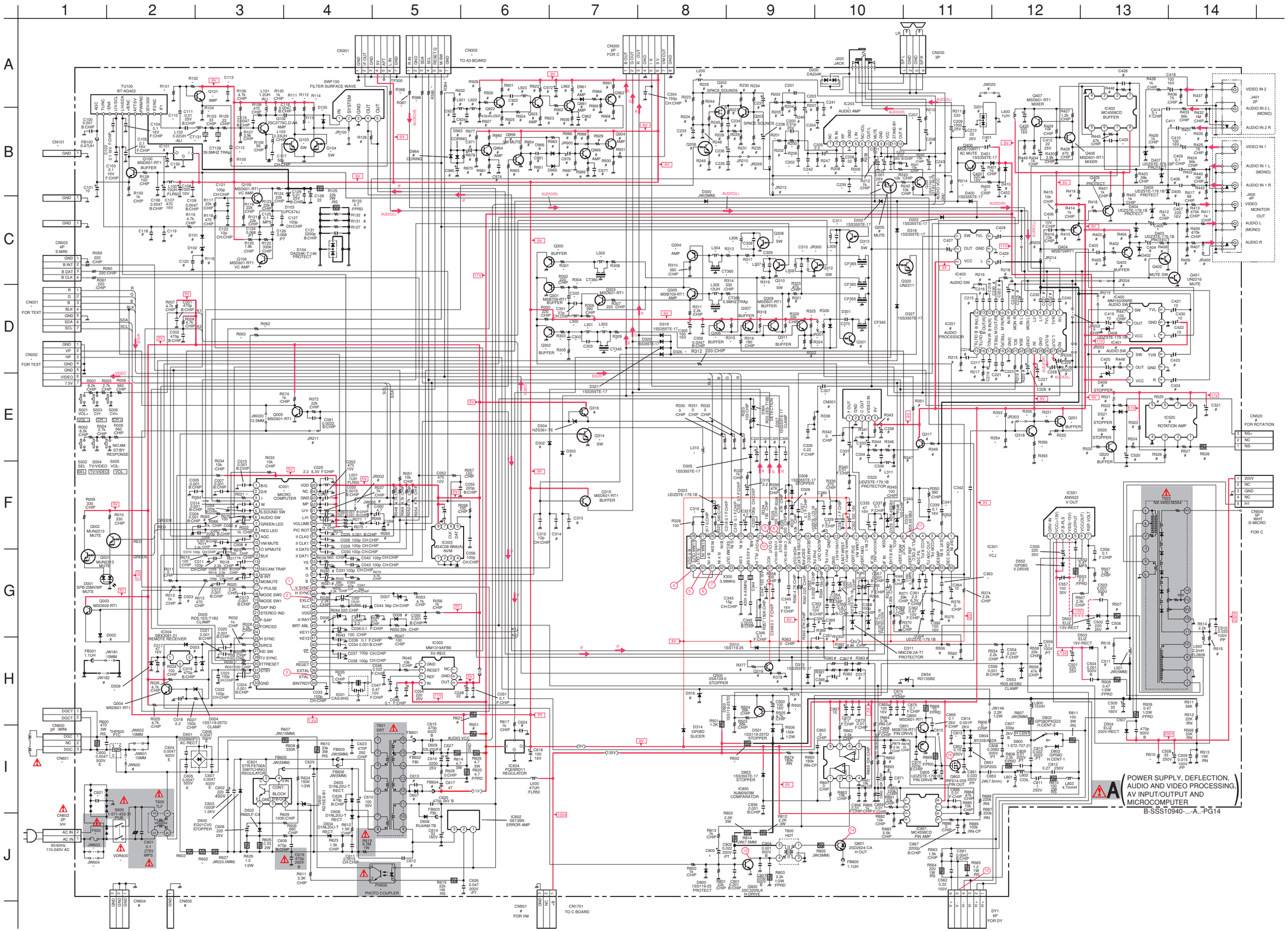
Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ✻	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The component identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

KV-PG14M40/PG14M72/L/N
KV-PG14P42/G/L/N/PG14P70
RM-952

(1) Schematic Diagram of A Board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A
B
C
D
E
F
G
H
I
J
CN301
CN302
TO A3 BOARD
CN300
6P
FOR C
SWF100
FILTER SURFACE WAVE
TU100
BT-AG402
IC101
MICRO
COMPUTER
IC002
MM1319ABE
5V-REG
IC003
M24C08-BN6(A)
NVM
IC004
SBX3081-21
REMOTE RECEIVER
IC201
AUDIO
PROCESSOR
IC400
MM1500NRE
AUDIO SW
IC401
UN2216
MUTE
IC402
MC4558CD
BUFFER
IC403
AUDIO SW
IC520
ROTATION AMP
IC551
AN5522
V-OUT
IC601
STR-F6706A
SWITCHING
REGULATOR
IC602
SE135N
ERROR AMP
IC604
PQ09RD11
REGULATOR
IC850
NJM2903M
COMPARATOR
IC851
MC44580CD
PIN AMP
IC300
MSP3415D-QA-B8
MULTI
IC301
YCJ
IC203
AUDIO AMP
Q300
BUFFER
Q301
MSB709-RT1
BUFFER
Q302
BUFFER
Q303
MSD601-RT1
BUFFER
Q304
AMP
Q305
MSB709-RT1
AMP
Q306
BUFFER
Q307
BUFFER
Q308
SW
Q309
MSD601-RT1
BUFFER
Q310
SW
Q311
BUFFER
Q312
SW
Q313
SW
Q314
SW
Q315
MSD601-RT1
BUFFER
Q316
Q317
Q320
UN2211
Q321
Q400
MSB709RT1
AC MUTE
Q401
1SS355TE-17
Q402
MUTE SW
Q403
BUFFER
Q404
MSB709RT1
Q406
MSD601-RT1
MIXER
Q407
MSD601-RT1
MIXER
Q500
2SA1213-O
STOPPER
Q501
1SS119-25TD
STOPPER
Q520
BUFFER
Q600
MSB709-RT1
PIN DRIVE
Q601
2SA1213-O
PIN DRIVE
Q602
IRFI614-005
PIN OUT
Q800
2SC2625LK
H-DRIVE
Q801
2SD2624-CA
H OUT
Q802
IRFI614-005
PIN OUT
Q851
MSB709-RT1
PIN DRIVE
Q852
UDZSTE-179.1B
PIN DRIVE
Q853
JW(7.5mm)
Q900
2SA1213-O
PIN DRIVE
Q901
2SA1213-O
PIN DRIVE
Q902
IRFI614-005
PIN OUT
Q903
2SC2625LK
H-DRIVE
Q904
2SD2624-CA
H OUT
D100
D101
D102
D103
UPC574J
D104
DA204K-T-146
PROTECT
D200
DA204K
D201
D202
1SS355TE-17
D203
1SS355TE-17
D204
1SS355TE-17
D205
MUTE
D206
D207
UDZSTE-179.1B
PROTECT
D208
UDZSTE-179.1B
PROTECT
D209
UDZSTE-179.1B
PROTECT
D210
1SS119-25
D300
JW(5MM)
D301
D302
D303
D304
HZS361-TE
D305
1SS355TE-17
D306
1SS355TE-17
D307
1SS355TE-17
D308
1SS355TE-17
STOPPER
D309
1SS355TE-17
D310
1SS119-25
D311
NNCD8.2A-T1
PROTECTOR
D314
GP08D
SLICER
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1SS355TE-17
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1SS355TE-17
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1SS355TE-17
D320
1SS355TE-17
D321
1SS355TE-17
D322
UDZSTE-179.1B
PROTECTOR
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UDZSTE-179.1B
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D327
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D401
1SS355TE-17
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UDZSTE-179.1B
PROTECT
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UDZSTE-179.1B
PROTECT
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UDZSTE-179.1B
PROTECT
D408
UDZSTE-179.1B
PROTECT
D409
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STOPPER
D501
1SS119-25TD
STOPPER
D502
ELIZ
15V-RECT
D503
ELIZ
15V-RECT
D504
ELIZ
200V-RECT
D550
GP08D
V.DRIVE
D551
D552
GP08D
V.DRIVE
D600
EG01CV0
STOPPER
D601
1SS355TE-17
AC-RECT
D602
RM2LF-C4
D603
D1NL20U-T
RECT
D604
D1NL20U-T
RECT
D605
D1NL20U-T
RECT
D606
RD15ES-B1
D607
D608
RU4AM-TB
D609
1SS355TE-17
D800
1SS119-25
PROTECT
D801
D850
1SS355TE-17
STOPPER
D851
EGP20G
D852
D853
1SS355TE-17
STOPPER
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RD13SB2
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D1000
D1001
D1002
D1003
D1004
D1005
D1006
D1007
D1008
CN001
FOR TEXT
CN002
FOR TEXT
CN003
4P
S.MINI
CN100
6P
FOR C
CN101
CN200
3P
CN500
SP
WHT
S-MICRO
FOR C
CN501
FOR VM
CN520
FOR ROTATION
CN600
2P
MINI
CN601
CN602
2P
VH
CN604
CN605
CN1701
TO C BOARD
DY1
6P
FOR DY
J200
JACK
J400
4P
VIDEO
MONITOR
OUT
J401
2P
VIDEO IN 2
AUDIO IN 2 L
(MONO)
AUDIO IN 2 R
VIDEO IN 1
AUDIO IN 1 L
(MONO)
AUDIO IN 1 R
AUDIO L
(MONO)
AUDIO R
T503
NX-4450-M5AA
T600
TLF
T601
SRT
T800
HDT
L600
470H
FLR50
L800
10mH
L801
COIL
F600
F601
F602
F603
F604
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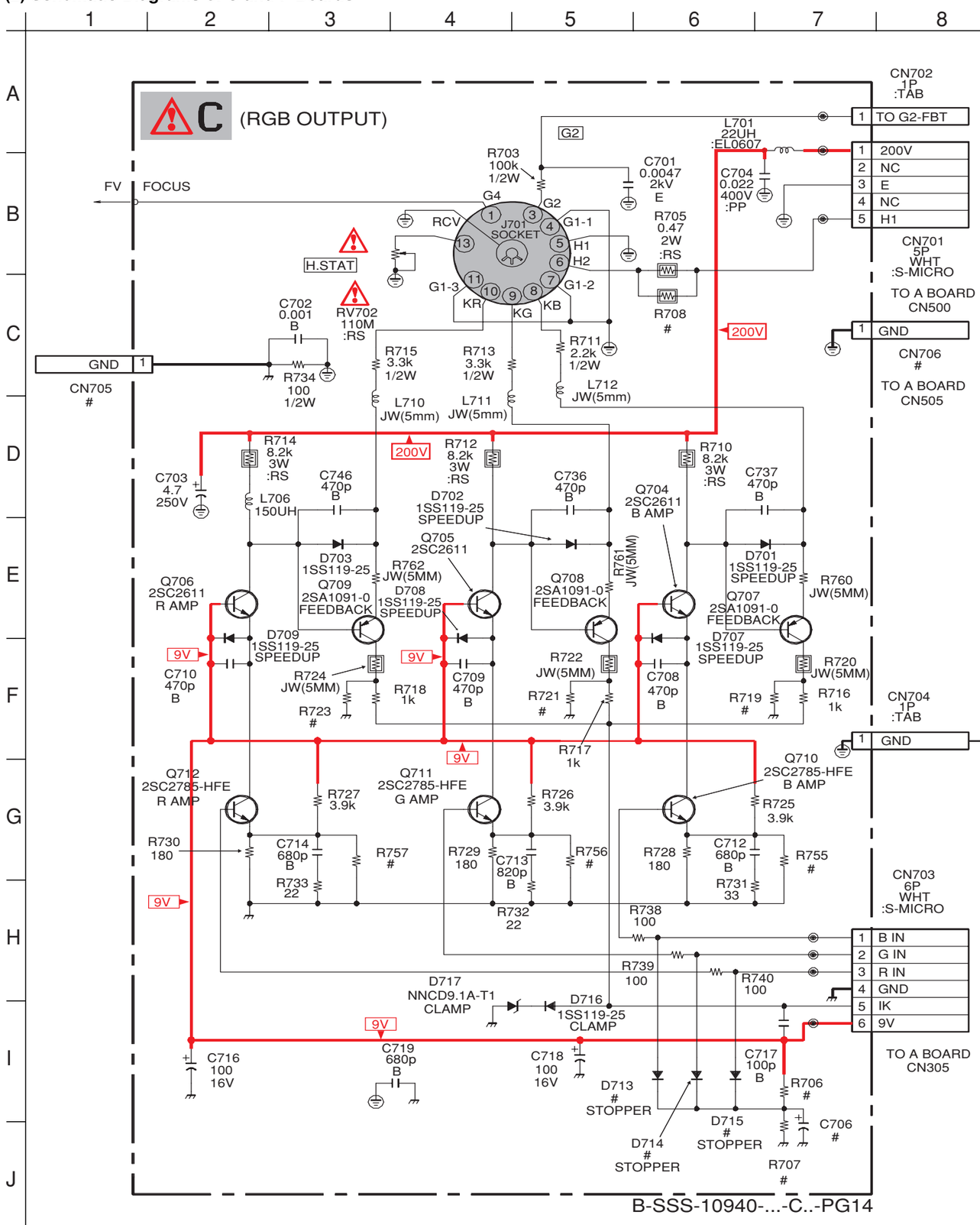
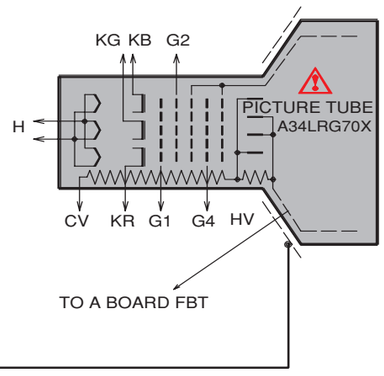
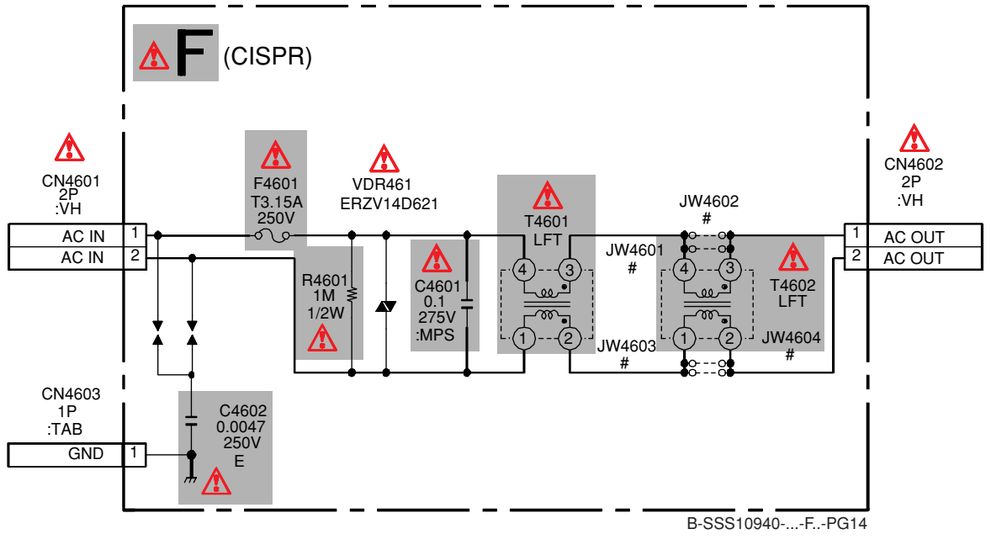
KV-PG14M40/PG14M72/L/N
KV-PG14P42/G/L/N/PG14P70
RM-952

(2) Schematic Diagrams of C and F Boards



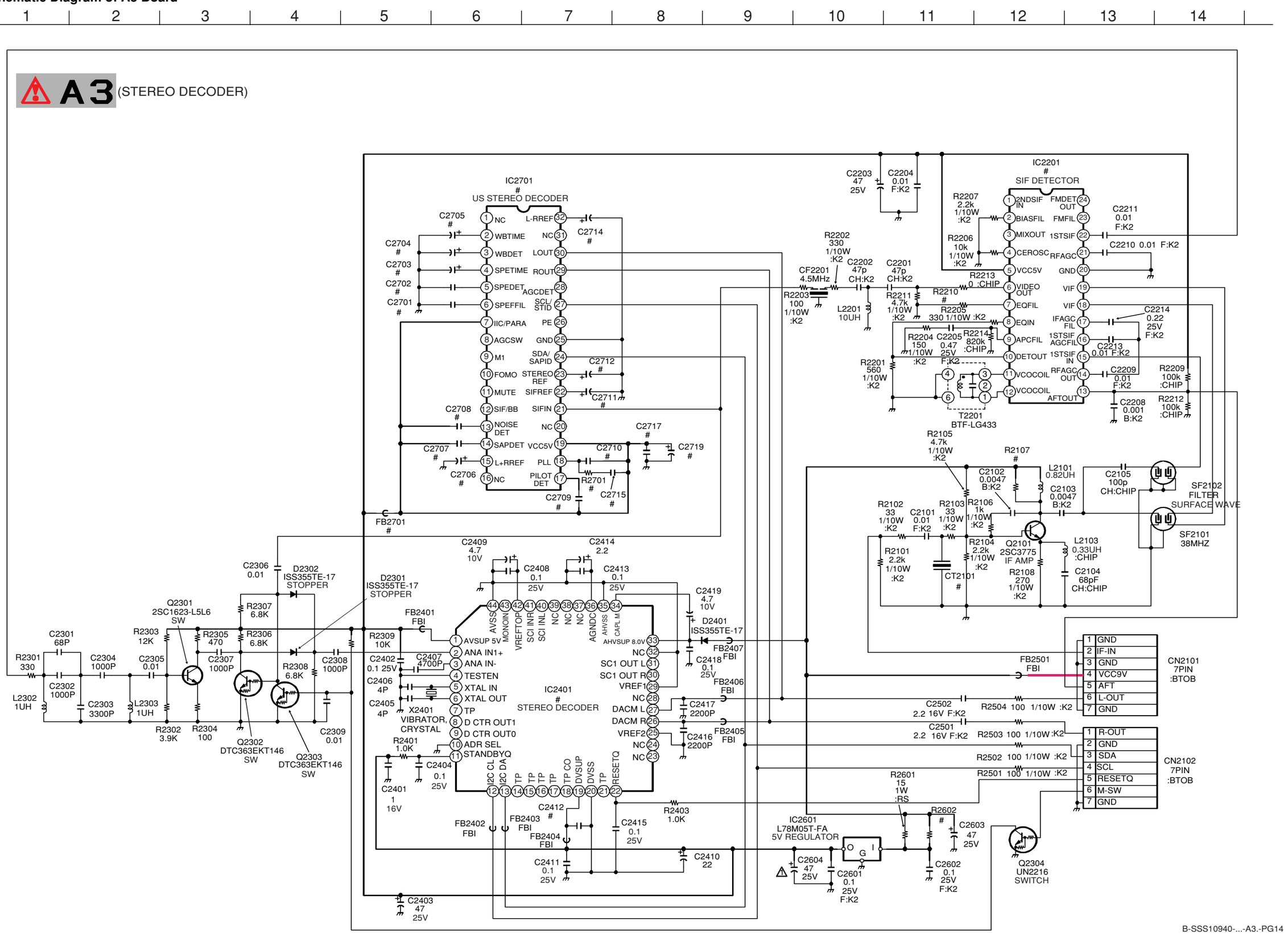




KV-PG14M40/PG14M72/L/N
KV-PG14P42/G/L/N/PG14P70
RM-952

(3) Schematic Diagram of A3 Board

A3 (STEREO DECODER)



B-SSS10940-...-A3.-PG14

A Board ✲ Mark List

	KV-PG14M40	KV-PG14P42 KV-PG14P42/G KV-PG14P42/N KV-PG14P42/L	KV-PG14P70	KV-PG14M72 KV-PG14M72/L KV-PG14M72/N
C036	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C039	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C049	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C051	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C102	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C103	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C104	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C105	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C110	#	#	#	0.01P 25V :CHIP
C112	#	#	#	0.01P 25V :CHIP
C113	#	#	#	0.0047P :CHIP
C200	0.01 25V :CHIP	0.01 25V :CHIP	0.01 25V :CHIP	0.1 16V :CHIP
C202	0.22 :RN	0.22 :RN	0.22 :RN	0.1
C242	0.022 :CHIP	0.022 :CHIP	0.022 :CHIP	0.001 :CHIP
C300	47P :CHIP	56P :CHIP	56P :CHIP	68P :CHIP
C302	47P :CHIP	#	#	47P :CHIP
C303	68P :CHIP	#	#	68P :CHIP
C307	0.22	0.22	0.22	#
C308	390P :CHIP	390P :CHIP	#	0 :CHIP
C309	330P :CHIP	#	#	0 :CHIP
C310	390P :CHIP	390P :CHIP	390P :CHIP	0 :CHIP
C311	470P :CHIP	#	#	0 :CHIP
C316	47P :CHIP	#	#	47P :CHIP
C318	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C319	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C320	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C327	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C328	0.22 25V :CHIP	0.22 16V :CHIP	0.22 25V :CHIP	0.22 25V :CHIP
C329	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C330	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C337	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C339	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C341	0.47 10V :CHIP	0.47 10V :CHIP	0.47 10V :CHIP	#
C342	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	#
C344	15P :CHIP	18P :CHIP	15P :CHIP	15P :CHIP
C346	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C348	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C353	0.47 16V :CHIP	0.47 10V :CHIP	0.47 16V :CHIP	0.47 16V :CHIP
C355	0.47 16V :CHIP	0.47 10V :CHIP	0.47 16V :CHIP	0.47 16V :CHIP
C359	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C363	0.0047P :CHIP	0.0047P :CHIP	0.0047P :CHIP	#
C370	0 :CHIP	#	#	#
C409	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C414	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C419	10	10	10	#
C421	10	10	10	#
C430	10	10	10	#
C554	0.0047 :CHIP	0.047 25V :CHIP	0.047	0.047
C556	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
C621	0.0047 250V :PP	0.0047 250V :PP	0.0047 250V :PP	#
C869	0.1	0.1 25V :CHIP	0.1 :CHIP	0.1 :CHIP
C872	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V	0.1 25V :CHIP
C875	0.1 25V :CHIP	0.1 16V :CHIP	0.1 25V :CHIP	0.1 25V :CHIP
CF345	(F4.5C)	#	#	#
CF355	(F5.5C)	(F5.5C)	(F5.5C)	#
CF360	(F6.0C)	#	#	#
CF365	(F6.5C)	(F5.74B)	#	#
CN101	#	#	#	TAB CONTACT
CN301	#	#	#	7P
CN302	#	#	#	7P
CN601	3P	3P	3P	2P
CT131	#	TRAP, CERAMIC	TRAP, CERAMIC	TRAP, CERAMIC
CT345	(T4.5C)	#	#	(T4.5C)
CT360	(T60B)	#	#	(T60B)
CT365	(T65B)	(T55B)	#	(T65B)
D007	RD5-1SB-T2	UDZSTE-175.1B	RD5-1SB-T2	RD5-1SB-T2
D009	RD5-1SB-T2	UDZSTE-175.1B	RD5-1SB-T2	RD5-1SB-T2
D100	MA77	#	#	MA77
D301	1SS355TE-17	#	#	#
F600	3.15A/250V	3.15A/250V	3.15A/250V	#
IC001	CXP85224A-085S	CXP85224A-081S	CXP85224-085S	CXP85224-085S

KV-PG14M40/PG14M72/L/N
KV-PG14P42/G/L/N/PG14P70
RM-952

A Board ✲ Mark List

	KV-PG14M40	KV-PG14P42 KV-PG14P42/G KV-PG14P42/N KV-PG14P42/L	KV-PG14P70	KV-PG14M72 KV-PG14M72/L KV-PG14M72/N
IC201	#	#	#	TDA7438D013TR
IC301	TDA8844/N2	TDA8843/N2	TDA8843/N2	TDA8844/N2
JR034	0 :CHIP	#	#	0 :CHIP
JR100	#	0 :CHIP	0 :CHIP	#
JR300	#	#	0 :CHIP	#
JR301	0 :CHIP	#	#	0 :CHIP
L300	18UH	15UH	15UH	22UH
L301	12UH	#	#	12UH
L302	8.2UH	#	#	8.2UH
L303	8.2UH	#	#	8.2UH
L304	12UH	12UH	#	12UH
L306	1.8UH	2.2UH	#	#
L307	2.2UH	#	#	#
L308	2.2UH	2.2UH	2.2UH	#
L309	2.7UH	#	#	#
L310	27UH	#	#	27UH
PH600	PC123F2	ON3171-R	PC123F2	PC123F2
Q101	#	#	#	MSD601-RT1
Q103	UN2216	#	#	UN2216
Q104	UN2216	#	#	UN2216
Q201	MSD601-RT1	MSD601-RT1	MSD601-RT1	#
Q300	MSB709-RT1	#	#	MSB709-RT1
Q302	MSB709-RT1	#	#	MSB709-RT1
Q304	MSB709-RT1	MSB709-RT1	#	MSB709-RT1
Q306	MSD601-RT1	MSD601-RT1	#	MSD601-RT1
Q307	MSD601-RT1	#	#	MSD601-RT1
Q308	UN2216	UN2216	#	UN2216
Q310	UN2216	#	#	UN2216
Q311	MSD609-RT1	#	#	MSD601-RT1
Q312	UN2216	UN2216	#	UN2216
Q313	UN2216	#	#	UN2216
Q314	UN2211	#	#	UN2211
Q318	MSD601-RT1	MSD601-RT1	MSD601-RT1	#
R021	1.0K :CHIP	#	#	1.0K :CHIP
R030	#	#	#	100 :CHIP
R062	1.0K :CHIP	1.0K :CHIP	#	1.0K :CHIP
R063	1.0K :CHIP	1.0K :CHIP	#	1.0K :CHIP
R064	1.0K :CHIP	#	#	1.0K :CHIP
R071	#	#	#	4.7K :CHIP
R101	#	#	#	3.9K :CHIP
R102	#	#	#	4.7K :CHIP
R104	#	#	#	270 :CHIP
R105	#	#	#	68 :CHIP
R111	10K :CHIP	#	#	10K :CHIP
R112	6.8K :CHIP	#	#	6.8K :CHIP
R113	2.2K :CHIP	#	#	2.2K :CHIP
R114	2.2K :CHIP	#	#	2.2K :CHIP
R200	8.2K :CHIP	8.2K :CHIP	8.2K :CHIP	2.2K :CHIP
R201	1.0K :CHIP	1.0K :CHIP	1.0K :CHIP	5.6K :CHIP
R206	1.8K :CHIP	1.8K :CHIP	1.8K :CHIP	2.2K :CHIP
R221	100 :CHIP	100 :CHIP	100 :CHIP	#
R222	2.2K :CHIP	2.2K :CHIP	2.2K :CHIP	#
R301	220 :CHIP	#	#	220 :CHIP
R303	220 :CHIP	#	#	220 :CHIP
R304	1.2K :CHIP	1.2K :CHIP	1.2K :CHIP	1 K :CHIP
R305	680 :CHIP	#	#	680 :CHIP
R308	120 :CHIP	#	#	150 :CHIP
R309	150 :CHIP	#	#	220 :CHIP
R313	330 :CHIP	330 :CHIP	#	330 :CHIP
R315	22K :CHIP	22K :CHIP	#	22K :CHIP
R317	470 :CHIP	470 :CHIP	#	470 :CHIP
R318	22K :CHIP	#	#	22K :CHIP
R319	470 :CHIP	#	#	470 :CHIP
R324	470 :CHIP	#	#	470 :CHIP
R325	22K :CHIP	#	#	22K :CHIP
R326	22K :CHIP	#	#	22K :CHIP
R338	15K :CHIP	15K :CHIP	15K :CHIP	#
R352	10K :CHIP	10K :CHIP	10K :CHIP	#

KV-PG14M40/PG14M72/L/N
KV-PG14P42/G/L/N/PG14P70
RM-952

A Board ✲ Mark List

	KV-PG14M40	KV-PG14P42 KV-PG14P42/G KV-PG14P42/N KV-PG14P42/L	KV-PG14P70	KV-PG14M72 KV-PG14M72/L KV-PG14M72/N
R353	820K :CHIP	820K :CHIP	820K :CHIP	#
R354	820K :CHIP	820K :CHIP	820K :CHIP	#
R355	3.3K :CHIP	3.3K :CHIP	3.3K :CHIP	#
R356	1.0K :CHIP	1.0K :CHIP	1.0K :CHIP	#
R384	#	#	#	100 :CHIP
R385	0 :CHIP	0 :CHIP	0 :CHIP	100 :CHIP
R386	0 :CHIP	0 :CHIP	0 :CHIP	100 :CHIP
R387	#	#	#	100 :CHIP
R388	#	#	#	100 :CHIP
R393	1.0K :CHIP	1.0K :CHIP	1.0K :CHIP	#
R602	2.2 10W	3.3 10W	2.2 10W	3.3 10W
VDR600	ERZV14D621	ERZV14D621	ERZV14D621	#

Note: The parts indicated as "#" in this circuit diagram are not listed here, as they are not used for these models.

5-4. VOLTAGE MEASUREMENT

A(1/2) BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]
IC001	1	4.7
	2	0
	3	0
	4	0
	5	5.0
	6	(0) [5.0]
	7	0
	8	(0) [0.2]
	9	5.0
	10	5.0
	11	0
	12	0
	13	0
	14	0
	15	5.0
	16	0
	17	0
	18	0
	19	0.6
	20	0
	21	5.0
	22	0
	23	(0) [5.0]
	24	(5.0) [0]
	25	(0) [0.3]
	26	3.8
	27	0
	28	0.5
	29	5.0
	30	5.0
	31	5.0
	32	0
	33	5.0
	34	2.5
	35	2.2
	36	5.0
	37	0
	38	(2.8) [4.9]
	39	0.5
	40	5.0
	41	5.0
	42	0.1
	43	0.7
	44	5.0
	45	(2.8) [5.0]
	46	(2.8) [5.0]
	47	0.4
	48	0
	49	0
	50	0
	51	0
	52	0
	53	5.0
	54	4.8
	55	5.0
	56	4.8
	57	5.0
	58	0
	59	8.8
	60	(0.2) [8.8]
	61	0
	62	0
	63	5.0
	64	5.0
IC002	1	0
	2	5.0
	3	4.9
	4	13.4
	5	5.0
	6	0
	7	0
	8	0.3
IC004	1	4.9
	2	3.8
	3	0
IC101	I	8.9
	G	0
	O	0.4
IC201	1	0.5
	2	0.5
	3	0.4
	4	0.4
	5	0.4
	6	0.4
	7	0.4
	8	0.4
	9	0.4
	10	0.4
	11	0.4
	12	0.4
	13	0.4
	14	0.4
	15	0.4
	16	0.4
	17	0.4
	18	0.4
	19	0.4
	20	0
	21	0.4
	22	0.4
	23	0.4
	24	0.4
	25	0
	26	0.4
	27	0.4
	28	0.3
IC203	1	0.4
	2	0.4
	3	15.4
	4	0
	5	0
	6	0.4
	7	7.2
	8	0.5
	9	0
	10	16.5
	11	8.2
	12	0.3
IC301	1	0.7
	2	3.7
	3	0.4
	4	0.4
	5	(2.6) [3.6]
	6	(2.9) [4.6]
	7	4.8
	8	4.8
	9	6.7
	10	0
	11	3.4
	12	8.1
	13	(3.8) [4.4]
	14	0
	15	2.9
	16	0.5
	17	(3.4) [3.9]
	18	6.2
	19	2.6
	20	2.6
	21	2.7
	22	(2.4) [2.1]
	23	3.5
	24	3.5
	25	3.5
	26	0.1
	27	2.7
	28	2.7
	29	2.4
	30	2.4
	31	2.4
	32	2.4
	33	0.3
	34	2.5
	35	2.5
	36	4.7
	37	8.1
	38	2.5
	39	4.9
	40	1.1
	41	(*) [0.6]
	42	3.1
	43	(4.0) [4.3]
	44	0
	45	(4.2) [4.0]
	46	1.4
	47	1.4
	48	4.7
	49	4.7
	50	1.5
	51	3.8
	52	3.8
	53	(4.6) [1.1]
	54	(4.2) [8.0]
	55	2.9
	56	3.1
IC400	1	(0) [4.9]
	2	4.4
	3	8.9
	4	5.2
	5	0
	6	5.2
IC402	1	1.4
	2	1.3
	3	2.5
	4	0
	5	2.5
	6	2.5
	7	5.5
	8	8.9
IC551	1	0.6
	2	12.9
	3	12.4
	4	(13) [-12.9]
	5	0.3
	6	12.7
	7	0.6

A(2/2) BOARD VOLTAGE LIST

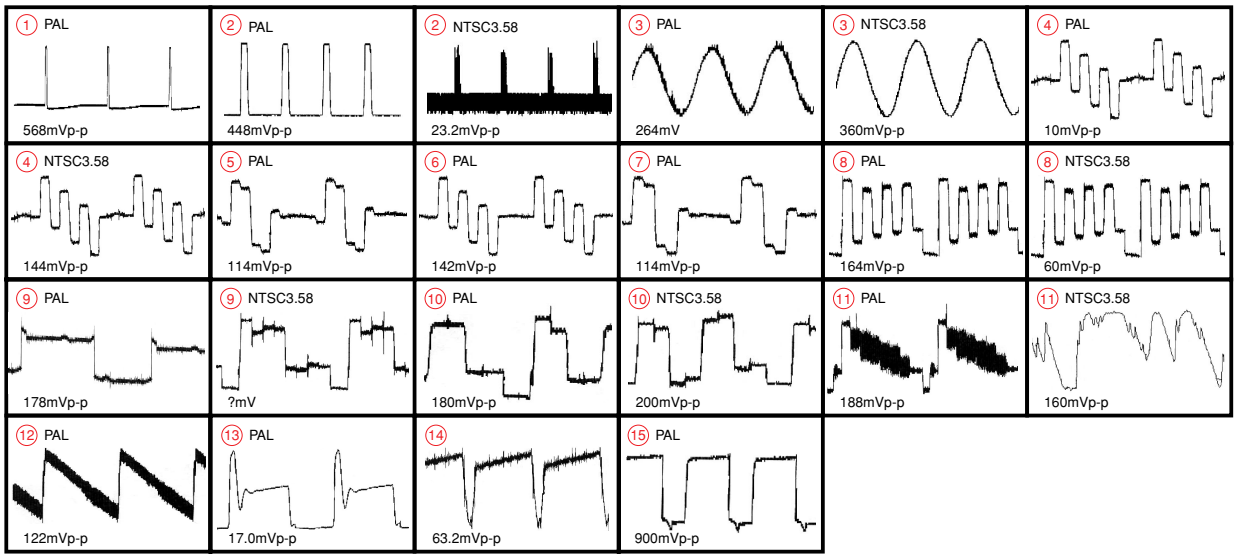
Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
IC601	1	0.9	Q106	B	0	Q313	B	0
	2	0.2		C	3.9		C	8.9
	3	(45.5) [0.4]		E	0.6		E	0
	4	(8.7) [0.4]	Q201	B	(0.4) [4.7]	Q314	B	0
	5	(0.2) [0]		C	8.9		C	0.6
IC602	1	0		E	5.3		E	0
	2	121.9	Q204	B	16.5	Q315	B	2.6
	3	134		C	16.5		C	8.9
IC604	I	13.4		E	15.8		E	0
	G	8.9	Q205	B	(4.8) [0.2]	Q318	B	2.1
	O	0		C	(0) [0.2]		C	(0.4) [5.4]
IC850	1	(*) [2.2]		E	(0) [4.8]		E	2.7
	2	0.8	Q300	B	(3.0) [3.6]	Q320	B	0
	3	1.0		C	0		C	3.3
	4	0		E	8.9		E	0
	5	2.7	Q301	B	(3.0) [3.6]	Q400	B	13.3
	6	(*) [2.2]		C	0		C	-0.3
	7	5.9		E	(2.3) [3.9]		E	13.4
	8	8.9	Q302	B	(3.0) [3.9]	Q401	B	0
IC851	1	(2.2) [2.7]		C	0		C	0
	2	3.2		E	8.9		E	(-0.5) [-0.1]
	3	3.2	Q303	B	(2.3) [3.7]	Q402	B	0
	4	0		C	(7.7) [6.1]		C	0.4
	5	(2.5) [2.8]		E	(2.9) [4.2]		E	(-0.5) [-0.2]
	6	(2.5) [2.8]	Q304	B	(2.9) [4.2]	Q403	B	0.4
	7	(3.9) [3.7]		C	(2.3) [3.7]		C	0
	8	8.9		E	8.9		E	(0.4) [0.6]
PH600	1	133.4	Q305	B	(3.0) [4.0]	Q404	B	5.2
	2	(121.7) [*]		C	(2.3) [3.5]		C	0
	3	(134.4) [8.7]		E	(2.3) [3.6]		E	4.5
	4	(134.4) [1.4]	Q306	B	8.9	Q405	B	3.2
Q002	B	(5.0) [0]		C	8.9		C	0
	C	(0) [4.9]		E	(2.9) [4.6]		E	2.5
	E	0	Q307	B	8.9	Q406	B	1.8
Q003	B	(0.4) [0.1]		C	(3.2) [9.0]		C	4.2
	C	5.0		E	(2.9) [4.7]		E	2.5
	E	0	Q308	B	0	Q407	B	(0.5) [3.5]
Q004	B	(0.2) [0.1]		C	(0.3) [8.8]		C	8.9
	C	5.0		E	(0.2) [0]		E	4.2
	E	(0.1) [0.2]	Q309	B	(1.7) [3.8]	Q801	B	0.2
Q100	B	3.6 [7.4]		C	(4.5) [9.0]		C	0
	C	8.8		E	(2.9) [4.7]		E	0
	E	(4.2) [8]	Q310	B	0	Q802	B	5.0
Q103	B	0		C	8.9		C	(8) [9]
	C	3.2		E	0		E	0
	E	0	Q311	B	8.9	Q850	B	5.8
Q104	B	0		C	8.9		C	8.9
	C	0		E	(2.9) [4.7]		E	5.9
	E	(0.4) [3.2]	Q312	B	0	Q851	B	(5.6) [6.0]
Q105	B	(0.4) [0]		C	0		C	0
	C	(9.3) [0]		E	3.9		E	5.9
	E	(0) [0.6]						

C BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]
J701	G2	(260.4) [258.4]
	H2	*
	KB	120
	KG	(120) [125]
	KR	(117) [119]
Q705	B	8.9
	C	(8.3) [124.4]
	E	(8.3) [0.3]
Q710	B	2.7
	C	8.3
	E	2.0
Q711	B	2.7
	C	8.3
	E	2.0
Q704	B	8.9
	C	(121.7) [123.2]
	E	(8.3) [6.3]
Q706	B	8.9
	C	119
	E	(8.3) [6]
Q707	B	(122) [125.2]
	C	7.3
	E	(120) [125.2]
Q708	B	(120.7) [123.4]
	C	7.4
	E	(118.2) [124.3]
Q709	B	(119) [120.1]
	C	(7.3) [8]
	E	(116) [119.8]
Q712	B	(2.7) [0.3]
	C	(8.3) [6]
	E	(2.1) [1.8]

5-5. WAVEFORMS

A BOARD WAVEFORM

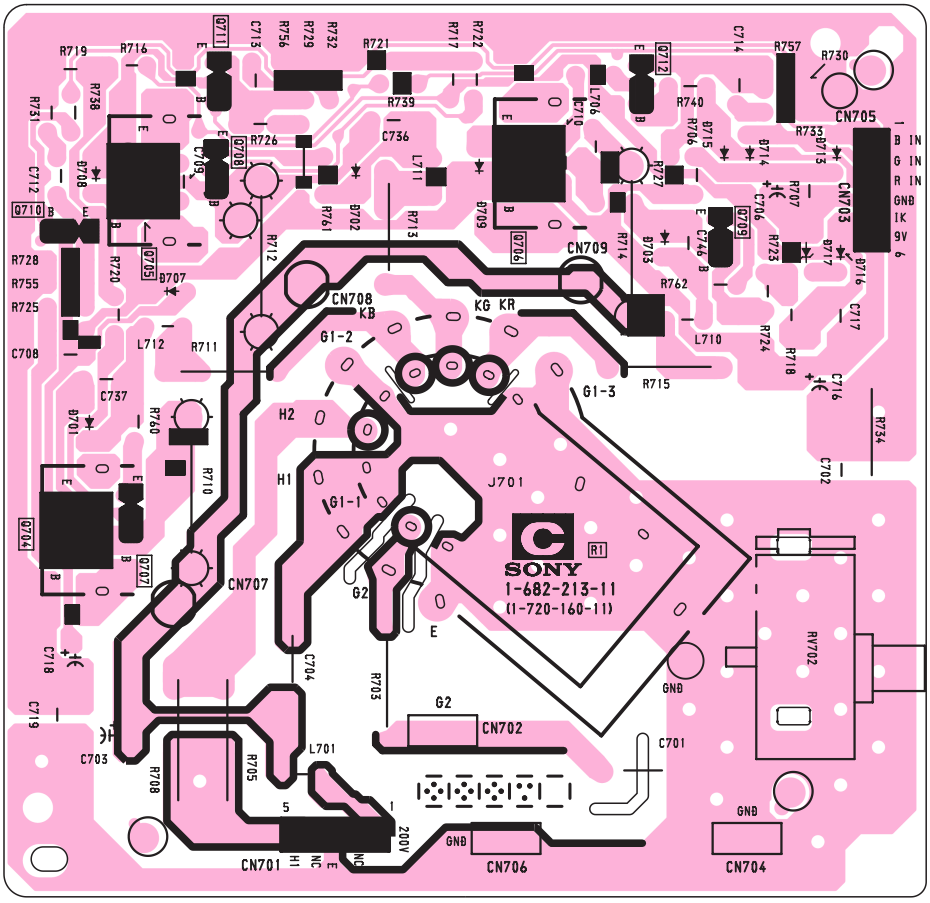


5-6. PRINTED WIRING BOARDS AND PARTS LOCATION

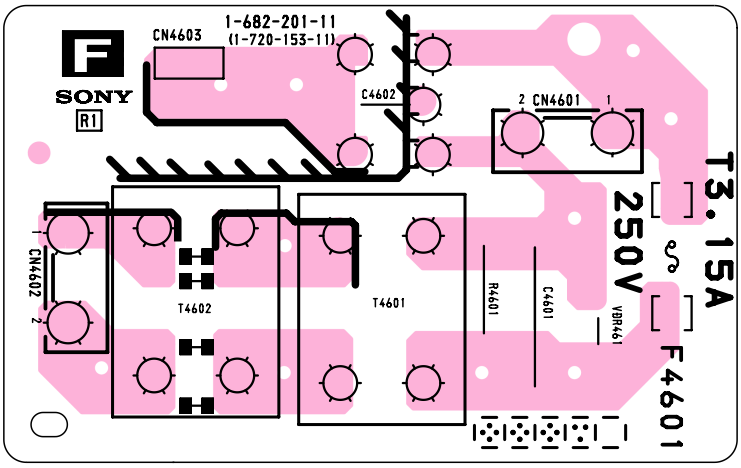
PRINTED WIRING BOARDS

C [RGB OUTPUT] **F** [CISPR] **A3** [STEREO DECODER]

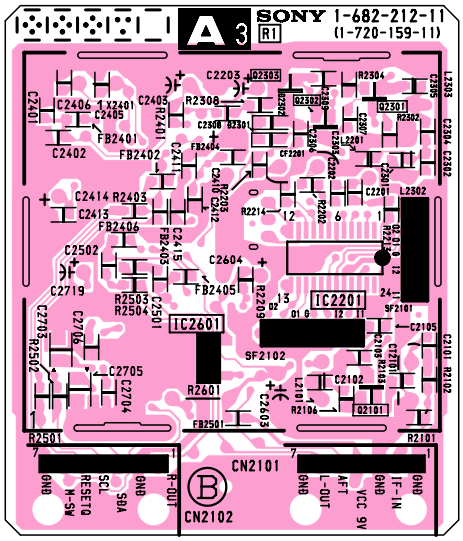
– C Board –



– F Board – (KV-PG14M72/PG14M72/L/N only)



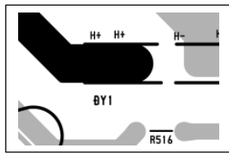
– A3 Board – (KV-PG14M72/PG14M72/L/N only)



KV-PG14M40/PG14M72/L/N
KV-PG14P42/G/L/N/PG14P70
RM-952

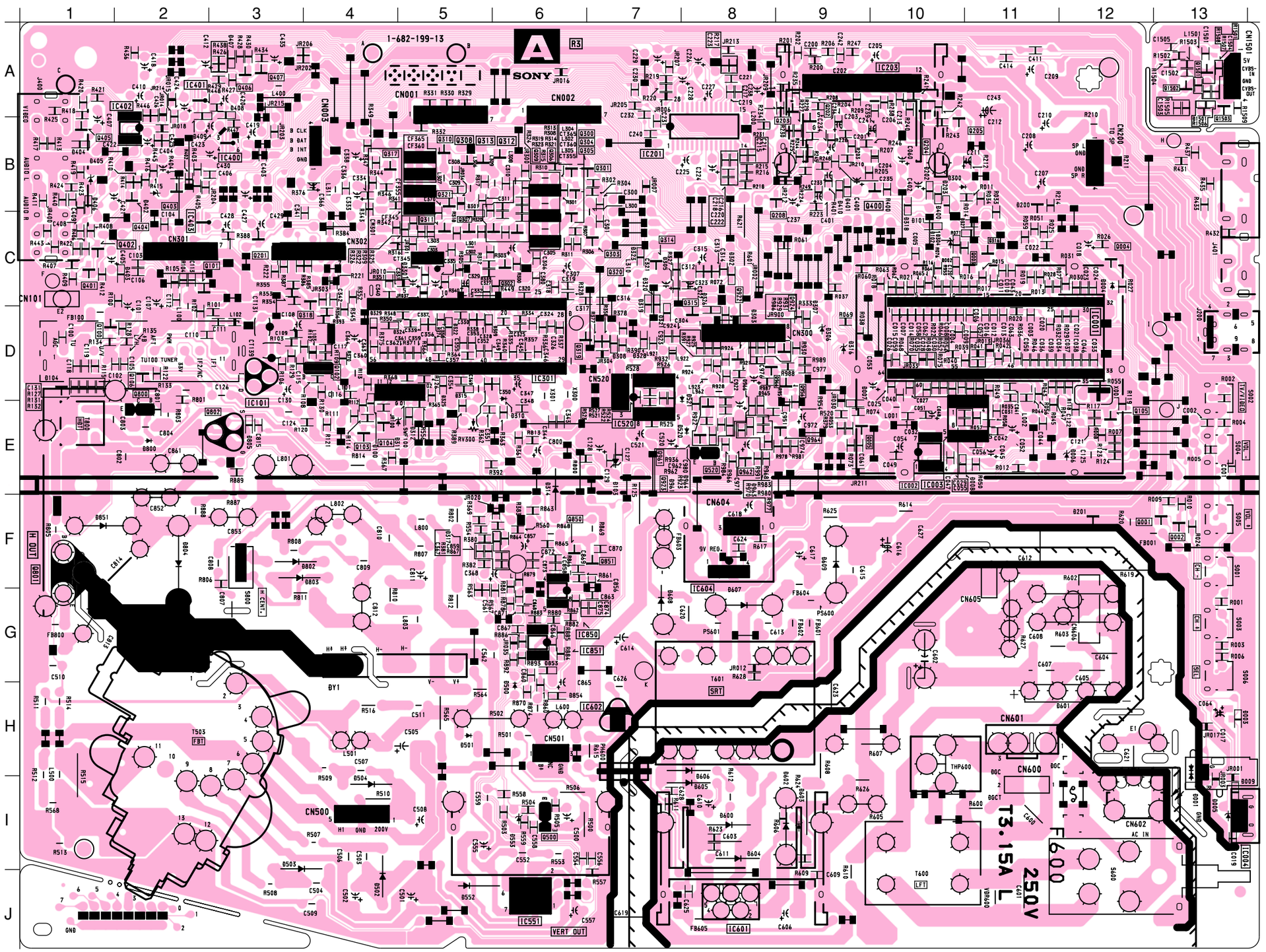
PRINTED WIRING BOARDS

A [POWER SUPPLY,DEFLECTION,AUDIO AND VIDEO PROCESSING, AUDIO/VIDEO INPUT/OUTPUT AND MICROCOMPUTER]



NOTE:
The circuit indicated at left contains high voltage of over 1220 Vp-p. Please pay attention when inspecting or repairing it to prevent an electric shock.

– A Board –



A BOARD

IC

IC001	D-12
IC002	E-10
IC003	E-10
IC004	I-13
IC101	D-3
IC201	B-7
IC203	A-10
IC301	D-6
IC400	B-3
IC401	A-2
IC402	A-2
IC403	C-2
IC520	E-7
IC551	J-6
IC601	J-8
IC602	H-7
IC604	G-8
IC850	G-6
IC851	G-6
PH600	H-7

TRANSISTOR

Q001	F-12
Q002	F-13
Q003	C-11
Q004	C-12
Q005	E-10
Q100	D-1
Q101	C-3
Q102	D-4
Q103	E-4
Q104	E-4
Q105	E-12
Q106	D-2
Q201	C-3
Q203	B-9
Q202	A-9
Q204	B-10
Q205	B-11
Q208	C-9
Q300	B-7
Q301	B-7
Q302	C-6
Q303	C-7
Q304	B-7
Q305	B-7
Q306	B-6
Q307	C-5
Q308	B-5
Q309	B-6
Q310	B-5
Q311	C-5
Q312	B-6
Q313	B-5
Q314	C-7
Q315	C-8
Q316	C-11
Q317	B-4
Q318	D-4
Q319	D-6
Q320	C-7
Q321	B-5
Q400	B-10
Q401	C-1
Q402	C-2
Q403	B-2
Q404	C-2
Q405	B-1
Q406	A-3
Q407	A-3
Q500	I-6
Q520	E-8
Q800	D-2
Q802	E-3
Q850	F-6
Q851	F-7
Q922	C-8
Q923	E-7
Q924	C-9
Q956	D-9
Q961	E-7
Q962	E-8
Q964	E-9
Q966	D-9

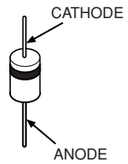
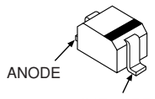
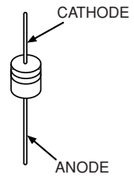
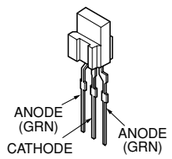
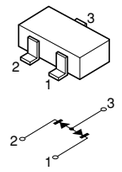
DIODE

D001	I-13
D002	C-10
D003	H-13
D004	C-12
D005	I-13
D006	E-12
D007	D-9
D008	E-11
D009	I-13
D100	E-4
D101	C-10
D102	C-10
D103	E-7
D104	D-1
D200	B-11
D201	F-12
D202	B-10
D203	B-10
D300	B-10
D301	B-5
D302	C-8
D303	D-8
D304	C-10
D305	C-7
D306	D-9
D307	D-9
D308	D-7
D309	D-6
D310	E-6
D312	E-5
D314	E-6
D315	D-5
D316	D-9
D317	F-5
D318	C-10
D319	D-7
D320	C-7
D321	D-7
D322	D-5
D323	C-7
D324	D-4
D325	D-5
D326	C-8
D327	C-10
D328	D-7
D400	C-10
D401	B-9
D402	B-2
D403	C-2
D404	B-1
D405	B-1
D406	B-1
D407	A-3
D408	A-3
D409	B-2
D410	B-9
D500	H-6
D501	H-5
D502	J-4
D503	I-3
D504	I-4
D520	E-7
D521	D-8
D522	J-5
D553	I-6
D600	I-8
D602	I-9
D603	I-9
D604	I-8
D605	I-8
D606	H-8
D607	G-8
D608	G-7
D609	F-9
D800	E-2
D802	F-4
D803	F-4
D804	F-2
D805	E-3
D851	F-1
D853	G-6
D854	H-6
D961	E-7
D963	E-8
D964	E-8
D965	D-8

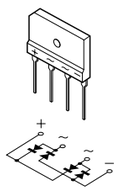
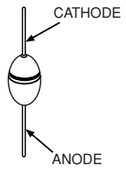
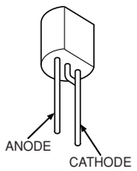
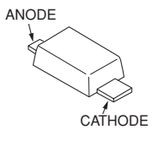
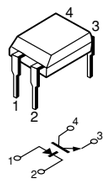
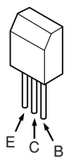
KV-PG14M40/PG14M72/L/N
KV-PG14P42/G/L/N/PG14P70
RM-952

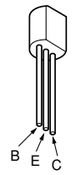
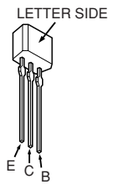
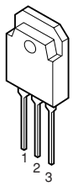
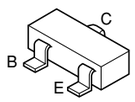
5-7. SEMICONDUCTORS

DIODE

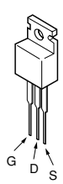
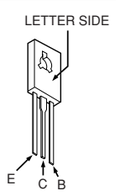
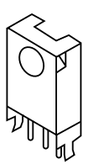
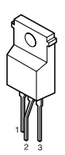
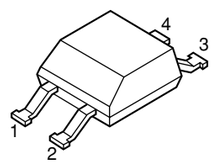
					
D1NL20U ELIZ EG01CV1 GPO8D EGP20G HZ361-TE	NNCD8.2A-T1 NNCD9.1A-T1 RU4AM-T3 1SS119-25	RD5.6ESB2 RD5.1SB-T2 UDZSTE-179.1B 1SS355TE-17 RD13SB2 UDZSTE-175.1B	RD2.2ES-B2 RD5.1ESB2 RD15ES-B1 S3L20UF4	SPB-25MVWF	DA204K

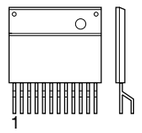
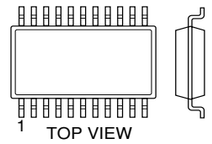
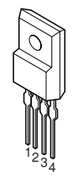
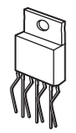
TRANSISTOR

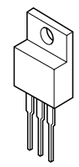
					
D3SB60F3	BY228	UPC574J	MA77	ON3171R	2SC3209LK

					
2SC3779C	2SC2785-HFE	2SD2624-CA	MSD601-RT1 MSB709-RT1 UN2211 UN2213 UN2216	2SA1162-G 2SC1623-L5L6	2SA1091-0

IC

				
IRF614-005	2SC2611	SBX3081-21	SE-135N	PC123F2

MARKING SIDE VIEW  Zig-zag In -line Package Pin 6~99		SOP  Small Outline L-Leaded Pin 8~98			
STR-F6706A TDA8844/N2		MM1319AFBE UPC4558G2 NJM2903M		PQO9RD11	AN5522

DIP Dual In-line Package Pin 6~98	
M24C08-BN6 (A)(8 PIN) CXP85224A-079S	L78M05T-FA

SECTION 6
EXPLODED VIEWS

NOTE:

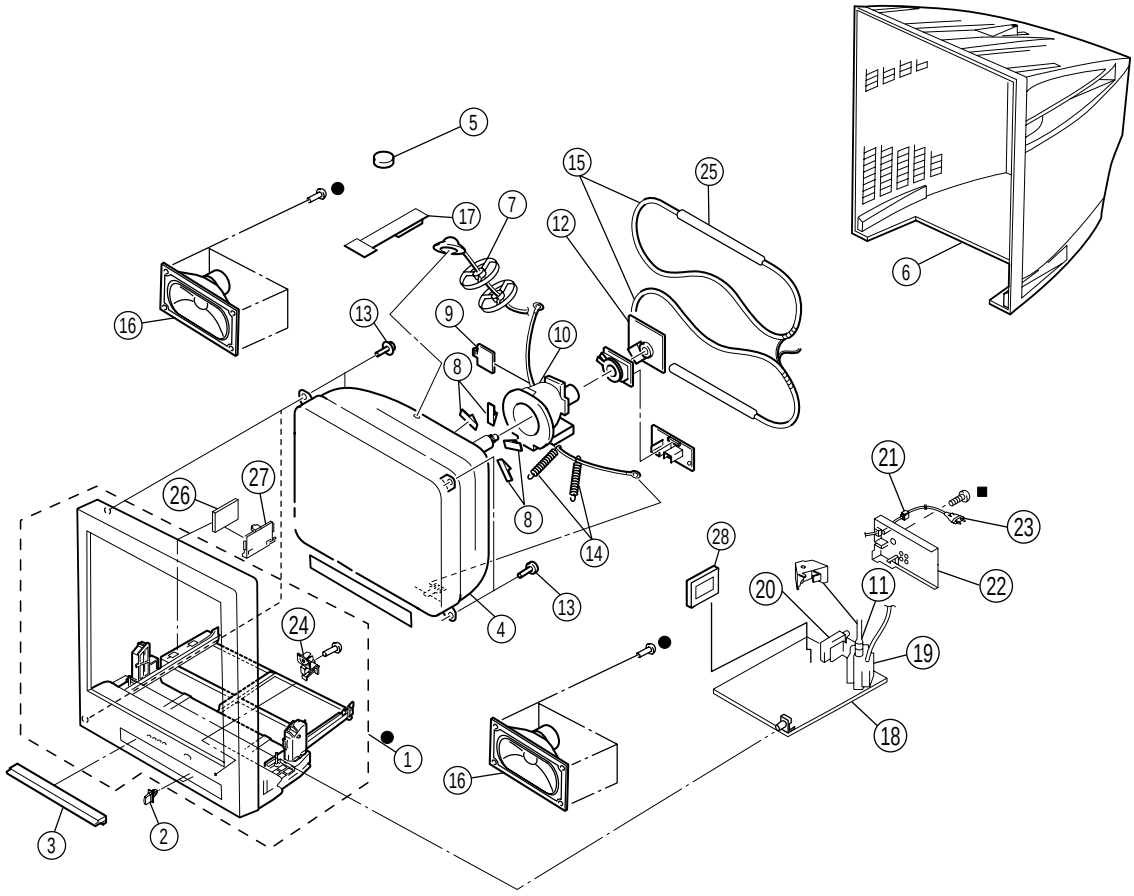
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ∗ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

6-1. PICTURE TUBE AND CHASSIS

● : 7-685-648-79 SCREW +BVTP 3 × 12
■ : 7-685-663-71 SCREW +BVTP 4 × 16

Caution : Do not take out CRT Support block while TV set in standing position.



REF. NO.		PART NO.	DESCRIPTION	REMARK
1		X-4039-346-1	BEZNET ASSY (KV-PG14M40/PG14P42/PG14P70)	24
		X-4039-575-1	BEZNET ASSY (KV-PG14M72)	
		X-4039-591-1	BEZNET ASSY (KV-PG14M72(L))	
		X-4039-614-1	BEZNET ASSY (KV-PG14M72(N))	
		X-4039-449-1	BEZNET ASSY (KV-PG14P42(G))	
		X-4039-452-1	BEZNET ASSY (KV-PG14P42(L))	
		X-4039-479-1	BEZNET ASSY (KV-PG14P42(N))	
2		4-081-868-01	BUTTON POWER	
3		X-4039-345-1	DOOR ASSY, CONTROL (KV-PG14M40)	
		X-4039-555-1	DOOR ASSY, CONTROL (KV-PG14M72(L))	
		X-4039-613-1	DOOR ASSY, CONTROL (KV-PG14M72(N))	
		X-4039-480-1	DOOR ASSY, CONTROL (KV-PG14M72)	
		X-4039-713-1	DOOR ASSY, CONTROL (KV-PG14P42)	
		X-4039-715-1	DOOR ASSY, CONTROL (KV-PG14P42(G))	
		X-4039-714-1	DOOR ASSY, CONTROL (KV-PG14P42(L))	
		X-4039-716-1	DOOR ASSY, CONTROL (KV-PG14P42(N))	
		X-4039-301-1	DOOR ASSY, CONTROL (KV-PG14P70)	
4	⚠	8-735-570-05	PICTURE TUBE (A34LRG70X)	
5		1-452-030-00	MAGNET DISK	
6		4-082-275-01	COVER REAR (■ 8 SCREWS)	
7	*	3-704-372-11	HOLDER HV CABLE	
8		4-081-577-01	SPACER (S) DY (KV-PG14M40/PG14M72/ PG14M72/L/N/PG14P70)	
		4-064-818-01	SPACER DY (KV-PG14P42/PG14P42/L/G/N)	
9		4-077-228-02	PIECE TLH CONVERGENCE	
10	⚠	8-451-401-11	DEFLECTION YOKE (Y14RSA-S)	
11		1-900-212-58	LEAD ASSY FOCUS	
12	*	A-1332-226-A	C BOARD MOUNTED (KV-PG14M40/PG14M72/ PG14M72/L/N/PG14P70)	
	*	A-1332-249-A	C BOARD MOUNTED (KV-PG14P42/ PG14P42/L/G/N)	
13		4-365-808-01	SCREW(5) TAPPING (KV-PG14M40/PG14M72/ PG14M72/L/N/PG14P70)	
		4-365-808-41	SCREW(5) TAPPING (KV-PG14P42/ PG14P42/L/G/N)	

REF. NO.		PART NO.	DESCRIPTION	REMARK
14		4-078-765-01	SPRING EXTENSION (KV-PG14M40/PG14M72/PG14M72/L/N/PG14P70)	
		4-078-765-11	SPRING EXTENSION (KV-PG14P42/ PG14P42/L/G/N)	
15	⚠	1-419-185-11	COIL, DEGAUSSING (KV-PG14M40/PG14M72/PG14M72/L/N/PG14P70)	
	⚠	1-419-185-31	COIL, DEGAUSSING (KV-PG14P42/PG14P42/L/G/N)	
16		1-544-965-11	SPEAKER (9 X 5CM)	
17		4-051-736-42	PIECE A (90)CONV, CORRECT	
18	*	A-1299-645-A	A BOARD COMPLETE (KV-PG14M40)	
	*	A-1299-637-A	A BOARD COMPLETE (KV-PG14M72/PG14M72/L/N)	
	*	A-1299-632-A	A BOARD COMPLETE (KV-PG14P42/PG14P42/L/G/N)	
	*	A-1299-614-A	A BOARD COMPLETE (KV-PG14P70)	
19	⚠	1-453-309-21	TRANSFORMER ASSY FLYBACK (NX-4450//M3A4)	
20		8-598-591-00	TUNER BT-AG402	
21	⚠	4-022-115-12	HOLDER AC CORD (KV-PG14M40/PG14M72/PG14M72/L/N/PG14P70)	
	⚠	4-022-115-31	HOLDER AC CORD (KV-PG14P42/PG14P42/L/G/N)	
22		4-059-710-01	BRACKET, TERMINAL BOARD (KV-PG14M40/PG14M72/PG14M72/L/N/PG14P70)	
		4-059-716-01	BRACKET TERMINAL BOARD (KV-PG14P42/PG14P42/L/G/N)	
23	⚠	1-574-062-52	CORD POWER (WITH CONNECTOR) (KV-PG14M40)	
	⚠	1-574-023-41	CORD POWER (WITH CONNECTOR) (KV-PG14P42/PG14P42/L/N/G)	
	⚠	1-574-062-22	CORD POWER (WITH CONNECTOR) (KV-PG14P70)	
	⚠	1-823-477-11	CORD, AC POWER (WITH CONNECTOR) (KV-PG14M72/PG14M72/L/N)	
24	*	4-081-867-01	BAR OPTICAL	
25	*	4-072-857-02	CUSHION DGC (KV-PG14M40/PG14M72/PG14M72/L/N/PG14P70)	
	*	4-072-857-12	CUSHION DGC (KV-PG14P42/PG14P42/L/G/N)	
26	*	A-1241-499-A	F BOARD MOUNTED (KV-PG14M72/PG14M72/L/N)	
27		4-049-158-01	BRACKET F1 PC BOARD (KV-PG14M72/PG14M72/L/N)	
28	*	A-1272-448-A	A3 BOARD MOUNTED (KV-PG14M72/PG14M72/L/N)	

SECTION 7
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF : µF, PF : µµF

COILS
- MMH : mH, UH : µH

REF NO.	PART NO.	DESCRIPTION	REMARK
*	A-1299-645-A	A BOARD COMPLETE (KV-PG14M40)	
*	A-1299-637-A	A BOARD COMPLETE (KV-PG14M72/PG14M72/L/PG14M72/N)	
*	A-1299-632-A	A BOARD COMPLETE (KV-PG14P42/ PG14P42/G/PG14P42/L/PG14P42/N)	
*	A-1299-614-A	A BOARD COMPLETE (KV-PG14P70)	
		**********	
	1-682-199-21	PWB, A	
*	4-055-304-01	HOLDER, LED	
*	4-082-454-01	HOLDER, FBT	
*	4-352-844-01	PIN, LEAD, COATING	
	4-382-854-01	SCREW (M3X8), P, SW (+)	
	4-382-854-21	SCREW (M3X14), P, SW (+)	
	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
		<CAPACITOR>	
C001	1-162-962-11	CERAMIC CHIP 470PF 10.00% 50V	
C002	1-162-962-11	CERAMIC CHIP 470PF 10.00% 50V	
C004	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C005	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C006	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C007	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C009	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C010	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C011	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C012	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C013	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C014	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C015	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C016	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C017	1-126-947-11	ELECT 47UF 20.00% 16V	
C018	1-126-961-11	ELECT 2.2UF 20.00% 50V	
C019	1-162-962-11	CERAMIC CHIP 470PF 10.00% 50V	
C020	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C021	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C022	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C023	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C024	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C025	1-135-834-91	CERAMIC CHIP 2.2E+06PF 6.3V	
C026	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C027	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C028	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C029	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C030	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C031	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C032	1-162-965-11	CERAMIC CHIP 0.0015UF 10.00% 50V	
C033	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C034	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C035	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	

REF NO.	PART NO.	DESCRIPTION	REMARK
C036	1-163-038-91	CERAMIC CHIP 0.1UF 25V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C036	1-164-360-11	CERAMIC CHIP 0.1UF 16V (KV-PG14P42/G/L/N)	
C037	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C038	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C039	1-163-038-91	CERAMIC CHIP 0.1UF 25V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C039	1-164-360-11	CERAMIC CHIP 0.1UF 16V (KV-PG14P42/G/L/N)	
C041	1-162-924-11	CERAMIC CHIP 56PF 5.00% 50V	
C042	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C043	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C044	1-162-924-11	CERAMIC CHIP 56PF 5.00% 50V	
C045	1-126-962-11	ELECT 3.3UF 20.00% 50V	
C046	1-162-995-11	CERAMIC CHIP 0.022UF 50V	
C047	1-113-619-11	CERAMIC CHIP 0.47UF 10V	
C048	1-126-965-91	ELECT 22UF 20.00% 50V	
C049	1-163-038-91	CERAMIC CHIP 0.1UF 25V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C049	1-164-360-11	CERAMIC CHIP 0.1UF 16V (KV-PG14P42/G/L/N)	
C050	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C051	1-163-038-91	CERAMIC CHIP 0.1UF 25V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C051	1-164-360-11	CERAMIC CHIP 0.1UF 16V (KV-PG14P42/G/L/N)	
C052	1-126-935-11	ELECT 470UF 20.00% 10V	
C053	1-126-935-11	ELECT 470UF 20.00% 10V	
C054	1-104-666-11	ELECT 220UF 20.00% 25V	
C055	1-162-960-11	CERAMIC CHIP 220PF 10.00% 50V	
C056	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C057	1-162-960-11	CERAMIC CHIP 220PF 10.00% 50V	
C058	1-162-960-11	CERAMIC CHIP 220PF 10.00% 50V	
C061	1-162-966-11	CERAMIC CHIP 0.0022UF 10.00% 50V	
C063	1-162-923-11	CERAMIC CHIP 47PF 5.00% 50V	
C100	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C101	1-126-964-11	ELECT 10UF 20.00% 50V	
C102	1-163-038-91	CERAMIC CHIP 0.1UF 25V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C102	1-164-360-11	CERAMIC CHIP 0.1UF 16V (KV-PG14P42/G/L/N)	
C103	1-163-038-91	CERAMIC CHIP 0.1UF 25V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C103	1-164-360-11	CERAMIC CHIP 0.1UF 16V (KV-PG14P42/G/L/N)	
C104	1-163-038-91	CERAMIC CHIP 0.1UF 25V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C104	1-164-360-11	CERAMIC CHIP 0.1UF 16V (KV-PG14P42/G/L/N)	
C105	1-163-038-91	CERAMIC CHIP 0.1UF 25V (KV-PG14M40/PG14P70/PG14M72/L/N)	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF NO.	PART NO.	DESCRIPTION			REMARK
C105	1-164-360-11	CERAMIC CHIP	0.1UF		16V
		(KV-PG14P42/G/L/N)			
C106	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C107	1-126-935-11	ELECT	470UF	20.00%	16V
C108	1-126-767-11	ELECT	1000UF	20.00%	16V
C109	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C110	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
		(KV-PG14M72/L/N)			
C111	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C112	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
		(KV-PG14M72/L/N)			
C113	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
		(KV-PG14M72/L/N)			
C115	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C116	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C117	1-162-924-11	CERAMIC CHIP	56PF	5.00%	50V
C121	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C122	1-162-915-11	CERAMIC CHIP	10PF	0.50PF	50V
C124	1-130-493-00	MYLAR	0.068UF	5.00%	50V
C125	1-130-495-00	MYLAR	0.1UF	5.00%	50V
C126	1-130-493-00	MYLAR	0.068UF	5.00%	50V
C127	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C128	1-126-965-91	ELECT	22UF	20.00%	50V
C129	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C131	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C200	1-107-725-11	CERAMIC CHIP	0.1UF	10.00%	16V
		(KV-PG14M72/L/N)			
C200	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
C202	1-130-495-00	MYLAR	0.1UF	5.00%	50V
		(KV-PG14M72/L/N)			
C202	1-136-169-00	FILM	0.22UF	5.00%	50V
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
C205	1-126-961-11	ELECT	2.2UF	20.00%	50V
C206	1-126-965-91	ELECT	22UF	20.00%	50V
C209	1-126-942-61	ELECT	1000UF	20.00%	25V
C210	1-128-551-11	ELECT	22UF	20.00%	25V
C211	1-126-964-11	ELECT	10UF	20.00%	50V
C212	1-126-942-61	ELECT	1000UF	20.00%	25V
C213	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C214	1-131-664-91	CERAMIC CHIP	0.15UF	10%	10V
C215	1-110-563-11	CERAMIC CHIP	0.068UF	10.00%	16V
C216	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C217	1-164-227-11	CERAMIC CHIP	0.022UF	10.00%	16V
C218	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C219	1-104-509-11	CERAMIC CHIP	0.018UF	10.00%	16V
C220	1-164-227-11	CERAMIC CHIP	0.022UF	10.00%	16V
C221	1-163-018-00	CERAMIC CHIP	0.0056UF	10.00%	50V
C222	1-104-509-11	CERAMIC CHIP	0.018UF	10.00%	16V
C223	1-163-018-00	CERAMIC CHIP	0.0056UF	10.00%	50V
C224	1-126-960-11	ELECT	1UF	20.00%	50V
C225	1-126-960-11	ELECT	1UF	20.00%	50V
C226	1-126-963-11	ELECT	4.7UF	20.00%	50V
C227	1-126-947-11	ELECT	47UF	20.00%	16V
C229	1-126-959-11	ELECT	0.47UF	20.00%	50V
C230	1-135-834-91	CERAMIC CHIP	2.2E+06PF		6.3V
C231	1-135-834-91	CERAMIC CHIP	2.2E+06PF		6.3V
C242	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
		(KV-PG14M72/L/N)			
C242	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
C300	1-162-925-11	CERAMIC CHIP	68PF	5.00%	50V
		(KV-PG14M72/L/N)			

REF NO.	PART NO.	DESCRIPTION			REMARK
C300	1-162-923-11	CERAMIC CHIP	47PF	5.00%	50V
		(KV-PG14M40)			
C300	1-162-924-11	CERAMIC CHIP	56PF	5.00%	50V
		(KV-PG14P42/G/L/N/PG14P70)			
C301	1-162-920-11	CERAMIC CHIP	27PF	5.00%	50V
C302	1-162-923-11	CERAMIC CHIP	47PF	5.00%	50V
		(KV-PG14M40/PG14M72/L/N)			
C303	1-162-925-11	CERAMIC CHIP	68PF	5.00%	50V
		(KV-PG14M40/PG14M72/L/N)			
C304	1-119-662-91	CERAMIC CHIP	150PF	1.00%	50V
C305	1-126-933-11	ELECT	100UF	20.00%	16V
C306	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C307	1-126-957-11	ELECT	0.22UF	20.00%	50V
		(EXCEPT KV-PG14M72/L/N)			
C308	1-216-295-91	SHORT	0 (KV-PG14M72/L/N)		
C308	1-164-392-11	CERAMIC CHIP	390PF	5.00%	50V
		(KV-PG14M40/PG14P42/G/L/N)			
C309	1-216-295-91	SHORT	0 (KV-PG14M72/L/N)		
C309	1-163-263-11	CERAMIC CHIP	330PF	5.00%	50V
		(KV-PG14M40)			
C310	1-216-295-91	SHORT	0 (KV-PG14M72/L/N)		
C310	1-163-131-00	CERAMIC CHIP	390PF	5.00%	50V
		(EXCEPT KV-PG14M72/L/N)			
C311	1-216-295-91	SHORT	0 (KV-PG14M72/L/N)		
C311	1-162-962-11	CERAMIC CHIP	470PF	10.00%	50V
		(KV-PG14M40)			
C312	1-162-916-11	CERAMIC CHIP	12PF	5.00%	50V
C315	1-126-961-11	ELECT	2.2UF	20.00%	50V
C316	1-162-923-11	CERAMIC CHIP	47PF	5.00%	50V
		(KV-PG14M40/PG14M72/L/N)			
C317	1-216-295-91	SHORT	0		
C318	1-163-038-91	CERAMIC CHIP	0.1UF		25V
		(KV-PG14M40/PG14M72/L/N/PG14P70)			
C318	1-164-360-11	CERAMIC CHIP	0.1UF		16V
		(KV-PG14P42/G/L/N)			
C319	1-163-038-91	CERAMIC CHIP	0.1UF		25V
		(KV-PG14M40/PG14M72/L/N/PG14P70)			
C319	1-164-360-11	CERAMIC CHIP	0.1UF		16V
		(KV-PG14P42/G/L/N)			
C320	1-163-038-91	CERAMIC CHIP	0.1UF		25V
		(KV-PG14M40/PG14M72/L/N/PG14P70)			
C320	1-164-360-11	CERAMIC CHIP	0.1UF		16V
		(KV-PG14P42/G/L/N)			
C321	1-126-963-11	ELECT	4.7UF	20.00%	50V
C323	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C327	1-163-038-91	CERAMIC CHIP	0.1UF		25V
		(KV-PG14M40/PG14M72/L/N/PG14P70)			
C327	1-164-360-11	CERAMIC CHIP	0.1UF		16V
		(KV-PG14P42/G/L/N)			
C328	1-164-222-91	CERAMIC CHIP	0.22UF		25V
		(KV-PG14M40/PG14P70/PG14M72/L/N)			
C328	1-165-128-11	CERAMIC CHIP	0.22UF		16V
		(KV-PG14P42/G/L/N)			
C329	1-163-038-91	CERAMIC CHIP	0.1UF		25V
		(KV-PG14M40/PG14P70/PG14M72/L/N)			
C329	1-164-360-11	CERAMIC CHIP	0.1UF		16V
		(KV-PG14P42/G/L/N)			
C330	1-163-038-91	CERAMIC CHIP	0.1UF		25V
		(KV-PG14M40/PG14P70/PG14M72/L/N)			
C330	1-164-360-11	CERAMIC CHIP	0.1UF		16V
		(KV-PG14P42/G/L/N)			
C332	1-126-933-11	ELECT	100UF	20.00%	16V
C335	1-126-947-11	ELECT	47UF	20.00%	16V
C337	1-163-038-91	CERAMIC CHIP	0.1UF		25V
		(KV-PG14M40/PG14P70/PG14M72/L/N)			
C337	1-164-360-11	CERAMIC CHIP	0.1UF		16V
		(KV-PG14P42/G/L/N)			

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REF NO.	PART NO.	DESCRIPTION	REMARK
C339	1-163-038-91	CERAMIC CHIP 0.1UF 25V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C339	1-164-360-11	CERAMIC CHIP 0.1UF 16V (KV-PG14P42/G/L/N)	
C341	1-113-619-11	CERAMIC CHIP 0.47UF 10V (KV-PG14M40/PG14P42/G/L/N/PG14P70)	
C342	1-163-038-91	CERAMIC CHIP 0.1UF 25V (KV-PG14M40/PG14P70)	
C342	1-164-360-11	CERAMIC CHIP 0.1UF 16V (KV-PG14P42/G/L/N)	
C343	1-162-917-11	CERAMIC CHIP 15PF 5.00% 50V	
C344	1-162-917-11	CERAMIC CHIP 15PF 5.00% 50V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C344	1-162-918-11	CERAMIC CHIP 18PF 5.00% 50V (KV-PG14P42/G/L/N)	
C345	1-162-967-11	CERAMIC CHIP 0.0033UF 10.00% 50V	
C346	1-163-038-91	CERAMIC CHIP 0.1UF 25V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C346	1-164-360-11	CERAMIC CHIP 0.1UF 16V (KV-PG14P42/G/L/N)	
C347	1-126-933-11	ELECT 100UF 20.00% 16V	
C348	1-163-038-91	CERAMIC CHIP 0.1UF 25V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C348	1-164-360-11	CERAMIC CHIP 0.1UF 16V (KV-PG14P42/G/L/N)	
C349	1-164-346-11	CERAMIC CHIP 1UF 16V	
C352	1-162-966-11	CERAMIC CHIP 0.0022UF 10.00% 50V	
C353	1-107-823-11	CERAMIC CHIP 0.47UF 10.00% 16V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C353	1-125-891-11	CERAMIC CHIP 0.47UF 10.00% 10V (KV-PG14P42/G/L/N)	
C354	1-162-968-11	CERAMIC CHIP 0.0047UF 10.00% 50V	
C355	1-107-823-11	CERAMIC CHIP 0.47UF 10.00% 16V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C355	1-125-891-11	CERAMIC CHIP 0.47UF 10.00% 10V (KV-PG14P42/G/L/N)	
C356	1-162-970-11	CERAMIC CHIP 0.01UF 10.00% 25V	
C357	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C358	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C359	1-163-038-91	CERAMIC CHIP 0.1UF 25V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C359	1-164-360-11	CERAMIC CHIP 0.1UF 16V (KV-PG14P42/G/L/N)	
C360	1-130-495-00	MYLAR 0.1UF 5.00% 50V	
C361	1-135-834-91	CERAMIC CHIP 2.2E+06PF 6.3V	
C362	1-113-619-11	CERAMIC CHIP 0.47UF 10V	
C363	1-162-968-11	CERAMIC CHIP 0.0047UF 10.00% 50V (KV-PG14M40/PG14P42/G/L/N/PG14P70)	
C364	1-126-964-11	ELECT 10UF 20.00% 50V	
C366	1-126-933-11	ELECT 100UF 20.00% 16V	
C369	1-137-194-81	FILM 0.47UF 5.00% 50V	
C370	1-216-295-91	SHORT 0 (KV-PG14M40)	
C400	1-126-934-11	ELECT 220UF 20.00% 16V	
C405	1-126-960-11	ELECT 1UF 20.00% 50V	
C406	1-115-156-11	CERAMIC CHIP 1UF 10V	
C407	1-126-934-11	ELECT 220UF 20.00% 16V	
C409	1-163-038-91	CERAMIC CHIP 0.1UF 25V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C409	1-164-360-11	CERAMIC CHIP 0.1UF 16V (KV-PG14P42/G/L/N)	
C410	1-126-933-11	ELECT 100UF 20.00% 16V	
C412	1-128-551-11	ELECT 22UF 20.00% 25V	
C414	1-163-038-91	CERAMIC CHIP 0.1UF 25V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C414	1-164-360-11	CERAMIC CHIP 0.1UF 16V (KV-PG14P42/G/N/L)	
C418	1-126-933-11	ELECT 100UF 20.00% 16V	
C419	1-126-964-11	ELECT 10UF 20.00% 50V (KV-PG14M40/PG14P42/G/L/N/PG14P70)	
C421	1-126-964-11	ELECT 10UF 20.00% 50V (KV-PG14M40/PG14P42/G/L/N/PG14P70)	
C425	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C430	1-126-964-11	ELECT 10UF 20.00% 50V (KV-PG14M40/PG14P42/G/L/N/PG14P70)	
C435	1-126-934-11	ELECT 220UF 20.00% 16V	
C500	1-126-933-11	ELECT 100UF 20.00% 16V	
C501	1-104-666-11	ELECT 220UF 20.00% 25V	
C502	1-104-666-11	ELECT 220UF 20.00% 25V	
C503	1-162-318-11	CERAMIC 0.001UF 10.00% 500V	
C504	1-162-318-11	CERAMIC 0.001UF 10.00% 500V	
C505	1-123-024-21	ELECT 33UF160V	
C507	1-102-228-00	CERAMIC 470PF 10.00% 500V	
C508	1-107-654-11	ELECT 33UF 20.00% 250V	
C509	1-137-350-11	MYLAR 0.015UF 10.00% 100V	
C510	1-106-379-12	MYLAR 0.033UF 10.00% 100V	
C552	1-137-194-81	FILM 0.47UF 5.00% 50V	
C554	1-163-035-00	CERAMIC CHIP 0.047UF 50V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C554	1-164-361-11	CERAMIC CHIP 0.047UF 25V (KV-PG14P42/G/L/N)	
C555	1-126-949-11	ELECT 220UF 20.00% 35V	
C556	1-163-038-91	CERAMIC CHIP 0.1UF 25V (KV-PG14M40/PG14P70/PG14M72/L/N)	
C556	1-164-360-11	CERAMIC CHIP 0.1UF 16V (KV-PG14P42/G/L/N)	
C557	1-126-948-11	ELECT 100UF 20.00% 35V	
C558	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C559	1-106-220-00	MYLAR 0.1UF 10.00% 100V	
C561	1-162-968-11	CERAMIC CHIP 0.0047UF 10.00% 50V	
C562	1-137-401-11	MYLAR 0.22UF 10.00% 100V	
C600	1-161-830-00	CERAMIC 0.0047UF 99% 500V	
C601	⚠ 1-115-165-11	FILM 0.1UF 20.00% 275V	
C602	1-117-751-11	ELECT(BLOCK) 220UF 20.00% 450V	
C603	1-117-619-11	FILM 1000PF 3.00% 1.2KV	
C604	1-161-830-00	CERAMIC 0.0047UF 99% 500V	
C605	1-161-830-00	CERAMIC 0.0047UF 99% 500V	
C606	1-104-666-11	ELECT 220UF 20.00% 25V	
C607	1-161-830-00	CERAMIC 0.0047UF 99% 500V	
C608	1-161-830-00	CERAMIC 0.0047UF 99% 500V	
C609	1-162-962-11	CERAMIC CHIP 470PF 10.00% 50V	
C610	1-126-948-11	ELECT 100UF 20.00% 35V	
C611	1-163-145-00	CERAMIC CHIP 0.0015UF 5.00% 50V	
C614	1-123-024-21	ELECT 33UF160V	
C615	1-102-228-00	CERAMIC 470PF 10.00% 500V	
C616	1-126-943-11	ELECT 2200UF 20.00% 25V	
C617	1-126-967-11	ELECT 47UF 20.00% 50V	
C618	1-126-933-11	ELECT 100UF 20.00% 16V	
C619	⚠ 1-119-886-51	CERAMIC 470PF 10.00% 250V	
C620	1-162-134-11	CERAMIC 470PF 10.00% 2KV	
C621	1-117-703-41	CERAMIC 0.0047UF 99% 250V (KV-PG14M40/PG14P42/G/L/N/PG14P70)	
C623	1-119-886-51	CERAMIC 470PF 10.00% 250V	
C626	1-106-383-00	MYLAR 0.047UF 10.00% 200V	
C628	1-162-962-11	CERAMIC CHIP 470PF 10.00% 50V	
C800	1-126-960-11	ELECT 1UF 20.00% 50V	
C801	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
C802	1-106-375-12	MYLAR 0.022UF 99% 200V	

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REF NO.	PART NO.	DESCRIPTION		REMARK	
C803	1-102-244-00	CERAMIC	220PF	10.00%	500V
C804	1-162-318-11	CERAMIC	0.001UF	10.00%	500V
C807	1-162-115-00	CERAMIC	330PF	10.00%	2KV
C808	1-106-365-00	MYLAR	0.0082UF	10.00%	200V
C809	1-107-364-11	MYLAR	0.01UF	10.00%	200V
C810	1-106-375-12	MYLAR	0.022UF	99%	200V
C811	1-107-957-11	ELECT	1UF	20.00%	250V
C812	1-117-664-11	FILM	0.27UF	5.00%	250V
C813	1-161-754-00	CERAMIC	0.001UF	10.00%	2KV
C814	1-117-644-11	FILM	10000PF	3.00%	1.2KV
C852	1-117-661-71	FILM	0.15UF	5.00%	250V
C856	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C857	1-126-964-11	ELECT	10UF	20.00%	50V
C858	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C859	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C860	1-208-834-11	METAL CHIP	150K	0.5%	1/10W
C863	1-216-295-91	SHORT	0		
C865	1-126-933-11	ELECT	100UF	20.00%	16V
C866	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C867	1-162-966-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C868	1-162-995-11	CERAMIC CHIP	0.022UF		50V
C869	1-115-339-11	CERAMIC CHIP (KV-PG14M40/PG14P70/PG14M72/L/N)	0.1UF	10.00%	50V
C869	1-164-156-11	CERAMIC CHIP (KV-PG14P42/G/L/N)	0.1UF		25V
C870	1-162-960-11	CERAMIC CHIP	220PF	10.00%	50V
C872	1-163-038-91	CERAMIC CHIP (KV-PG14M40/PG14P70/PG14M72/L/N)	0.1UF		25V
C872	1-164-360-11	CERAMIC CHIP (KV-PG14P42/G/L/N)	0.1UF		16V
C873	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C874	1-162-974-11	CERAMIC CHIP	0.01UF		50V
C875	1-163-038-91	CERAMIC CHIP (KV-PG14M40/PG14P70/PG14M72/L/N)	0.1UF		25V
C875	1-164-360-11	CERAMIC CHIP (KV-PG14P42/G/L/N)	0.1UF		16V
		<FILTER>			
CF345	1-234-684-21	FILTER, BAND PASS (F4.5C) (KV-PG14M40)			
CF355	1-234-686-21	FILTER, BAND PASS (F5.5C) (KV-PG14M40/PG14P42/G/L/N/PG14P70)			
CF360	1-234-689-21	FILTER, BAND PASS (F6.0C) (KV-PG14M40)			
CF365	1-234-691-21	FILTER, BAND PASS (F6.5C) (KV-PG14M40)			
CF365	1-234-693-21	FILTER, BAND PASS (F5.74B) (KV-PG14P42/G/L/N)			
CLP002	4-352-844-01	PIN, LEAD, COATING			
		<CONNECTOR>			
CN003	* 1-508-797-00	PIN, CONNECTOR 4P			
CN101	1-695-915-11	TAB (CONTACT) (KV-PG14M72/L/N)			
CN200	* 1-564-506-11	PLUG, CONNECTOR 3P			
CN300	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN301	* 1-774-813-11	CONNECTOR, BOARD TO BOARD 7P (KV-PG14M72/L/N)			
CN302	* 1-774-813-11	CONNECTOR, BOARD TO BOARD 7P (KV-PG14M72/L/N)			
CN500	* 1-564-508-11	PLUG, CONNECTOR 5P			
CN600	* 1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P			
CN601	* 1-691-134-11	PIN, CONNECTOR (PC BOARD) 2P (KV-PG14M72/L/N)			
CN601	* 1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P (KV-PG14M40/PG14P42/G/L/N/PG14P70)			
CN602	1-580-843-11	PIN, CONNECTOR (POWER)			

REF NO.	PART NO.	DESCRIPTION	REMARK
		<TRIMMER>	
CT131	1-767-774-22	TRAP, CERAMIC (KV-PG14P42/G/L/N/PG14P70/PG14M72/L/N)	
CT139	1-767-775-22	TRAP, CERAMIC	
CT345	1-795-342-21	TRAP, CERAMIC (T4.5C) (KV-PG14M40/PG14M72/L/N)	
CT355	1-795-343-21	TRAP, CERAMIC (T55B)	
CT360	1-795-344-21	TRAP, CERAMIC (T60B) (KV-PG14M40/PG14M72/L/N)	
CT365	1-795-345-21	TRAP, CERAMIC (T65B) (KV-PG14M40/PG14M72/L/N)	
CT365	1-795-343-21	TRAP, CERAMIC (T55B) (KV-PG14P42/G/L/N)	
		<DIODE>	
D001	8-719-083-18	DIODE SPB-25MVWF	
D004	8-719-911-19	1SS119-25	
D005	8-719-109-85	RD5.1ESB2	
D007	8-719-159-10	RD5.1SB-T2 (KV-PG14M40/PG14P70/PG14M72/L/N)	
D007	8-719-069-54	UDZSTE-175.1B (KV-PG14P42/G/L/N)	
D009	8-719-159-10	RD5.1SB-T2 (KV-PG14M40/PG14P70/PG14M72/L/N)	
D009	8-719-069-54	UDZSTE-175.1B (KV-PG14P42/G/L/N	
D100	8-719-421-40	MA77 (KV-PG14M40/PG14M72/L/N)	
D103	8-759-157-40	UPC574J	
D104	8-719-914-42	DA204K	
D200	8-719-914-42	DA204K	
D202	8-719-988-61	1SS355TE-17	
D203	8-719-988-61	1SS355TE-17	
D301	8-719-988-61	1SS355TE-17 (KV-PG14M40)	
D304	8-719-063-66	HZS361-TE	
D305	8-719-988-61	1SS355TE-17	
D306	8-719-109-54	RD2.2ES-B2	
D307	8-719-988-61	1SS355TE-17	
D308	8-719-988-61	1SS355TE-17	
D309	8-719-069-60	UDZSTE-179.1B	
D310	8-719-911-19	1SS119-25	
D311	8-719-070-15	NNCD8.2A-T1	
D312	8-719-069-60	UDZSTE-179.1B	
D314	8-719-908-03	GP08D	
D315	8-719-988-61	1SS355TE-17	
D318	8-719-988-61	1SS355TE-17	
D319	8-719-988-61	1SS355TE-17	
D320	8-719-988-61	1SS355TE-17	
D321	8-719-988-61	1SS355TE-17	
D322	8-719-069-60	UDZSTE-179.1B	
D323	8-719-069-60	UDZSTE-179.1B	
D324	8-719-069-60	UDZSTE-179.1B	
D325	8-719-069-60	UDZSTE-179.1B	
D325	8-719-158-35	RD9.1S-B	
D326	8-719-988-61	1SS355TE-17	
D327	8-719-988-61	1SS355TE-17	
D329	8-719-109-89	RD5.6ESB2	
D330	8-719-109-89	RD5.6ESB2	
D400	8-719-988-61	1SS355TE-17	
D401	8-719-988-61	1SS355TE-17	
D403	8-719-069-60	UDZSTE-179.1B	
D404	8-719-069-60	UDZSTE-179.1B	
D406	8-719-069-60	UDZSTE-179.1B	

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF NO.	PART NO.	DESCRIPTION	REMARK
D407	8-719-069-60	UDZSTE-179.1B	
D500	8-719-911-19	1SS119-25	
D501	8-719-911-19	1SS119-25	
D502	8-719-302-43	EL1Z	
D503	8-719-302-43	EL1Z	
D504	8-719-302-43	EL1Z	
D552	8-719-908-03	GP08D	
D553	8-719-109-89	RD5.6ESB2	
D600	8-719-030-33	DIODE EG01CV1	
D601	8-719-077-77	D3SB60F3	
D602	8-719-084-25	DIODE RM2LF-C4	
D603	8-719-110-39	RD15ES-B1	
D604	8-719-063-70	D1NL20U	
D605	8-719-063-70	D1NL20U	
D606	8-719-063-70	D1NL20U	
D608	8-719-312-10	RU4AM-T3	
D609	8-719-510-73	S3L20UF4	
D800	8-719-911-19	1SS119-25	
D802	8-719-908-03	GP08D	
D803	8-719-908-03	GP08D	
D804	8-719-081-00	DIODE BY228/A52A/	
D805	8-719-069-60	UDZSTE-179.1B	
D851	8-719-979-85	EGP20G	
D853	8-719-988-61	1SS355TE-17	
D854	8-719-158-53	RD13SB2	
		<CONNECTOR>	
DY1	* 1-580-798-11	CONNECTOR PIN (DY) 6P	
		<FUSE>	
F600	⚠ 1-576-016-11	FUSE, TIME-LAG (BET) 3.15A/250V (KV-PG14M40/PG14P42/G/L/N/PG14P70)	
		<FERRITE BEAD>	
FB001	1-410-397-21	FERRITE 1.1UH	
FB100	1-239-358-21	FILTER, NOISE	
FB602	1-410-397-21	FERRITE 1.1UH	
FB603	1-412-911-31	FERRITE 0UH	
FB800	1-410-397-21	FERRITE 1.1UH	
		<IC>	
IC001	8-752-928-47	IC CXP85224A-085S (KV-PG14M40/PG14P70/PG14M72/L/N)	
IC001	8-752-925-66	IC CXP85224A-081S (KV-PG14P42/G/L/N)	
IC002	8-759-371-21	MM1319AFBE	
IC003	8-759-672-78	M24C08-BN6(A)	
IC004	8-742-225-20	IC SBX3081-21	
IC201	8-759-476-86	TDA7438D013TR (KV-PG14M72/L/N)	
IC203	6-700-036-01	IC AN5279	
IC301	6-700-146-01	IC TDA8844/N2 (KV-PG14M40/PG14M72/L/N)	
IC301	6-700-145-01	IC TDA8843/N2 (KV-PG14P42/G/L/N/PG14P70)	
IC402	8-759-649-89	IC MC4558CD	
IC551	8-759-835-98	IC AN5522	
IC601	8-749-019-43	IC STR-F6706A	
IC602	8-749-920-61	SE-135N	
IC604	8-759-459-99	PQ09RD11	
IC850	8-759-700-07	NJM2903M	
IC851	8-759-649-89	IC MC4558CD	
		<JACK>	
J200	1-770-785-12	JACK	
J400	1-779-849-11	JACK BLOCK, PIN 4P	
J401	1-779-205-11	JACK, PIN 2P	
		<CHIP CONDUCTOR>	
JR001	1-216-295-91	SHORT 0	
JR003	1-216-295-91	SHORT 0	
JR006	1-216-295-91	SHORT 0	
JR012	1-216-295-91	SHORT 0	
JR013	1-216-295-91	SHORT 0	
JR014	1-216-295-91	SHORT 0	
JR015	1-216-295-91	SHORT 0	
JR017	1-216-295-91	SHORT 0	
JR018	1-216-295-91	SHORT 0	
JR020	1-216-295-91	SHORT 0	
JR034	1-216-295-91	SHORT 0 (KV-PG14M40/PG14M72/L/N)	
JR035	1-216-295-91	SHORT 0	
JR036	1-216-295-91	SHORT 0	
JR100	1-216-864-11	SHORT 0 (KV-PG14P42/G/L/N/PG14P70)	
JR212	1-216-295-91	SHORT 0	
JR214	1-216-295-91	SHORT 0	
JR300	1-216-295-91	SHORT 0 (KV-PG14P70)	
JR301	1-216-295-91	SHORT 0 (KV-PG14M40/PG14M72/L/N)	
JR304	1-216-295-91	SHORT 0	
		<COIL>	
L001	1-414-855-31	INDUCTOR 1UH	
L002	1-414-184-41	INDUCTOR 15UH	
L100	1-414-856-11	INDUCTOR 10UH	
L101	1-410-498-11	INDUCTOR 1.2UH	
L102	1-410-985-42	INDUCTOR 0.22UH	
L103	1-410-987-42	INDUCTOR 0.33UH	
L300	1-410-513-11	INDUCTOR 22UH (KV-PG14M72/L/N)	
L300	1-410-511-11	INDUCTOR 15UH (KV-PG14P42/G/L/N/PG14P70)	
L300	1-410-512-11	INDUCTOR 18UH (KV-PG14M40)	
L301	1-410-510-11	INDUCTOR 12UH (KV-PG14M40/PG14M72/L/N)	
L302	1-410-508-11	INDUCTOR 8.2UH (KV-PG14M40/PG14M72/L/N)	
L303	1-410-508-11	INDUCTOR 8.2UH (KV-PG14M40/PG14M72/L/N)	
L304	1-410-510-11	INDUCTOR 12UH (KV-PG14M40/PG14P42/G/L/N/PG14M72/L/N)	
L305	1-410-510-11	INDUCTOR 12UH	
L306	1-410-500-11	INDUCTOR 1.8UH (KV-PG14M40)	
L306	1-410-501-11	INDUCTOR 2.2UH (KV-PG14P42/G/L/N)	
L307	1-410-501-11	INDUCTOR 2.2UH (KV-PG14M40)	
L308	1-410-501-11	INDUCTOR 2.2UH (KV-PG14M40/PG14P42/G/L/N/PG14P70))	
L309	1-410-502-11	INDUCTOR 2.7UH (KV-PG14M40)	
L310	1-408-608-31	INDUCTOR 27UH (KV-PG14M40/PG14M72/L/N)	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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REF NO.	PART NO.	DESCRIPTION	REMARK
L400	1-414-187-11	INDUCTOR 47UH	
L500	1-408-947-00	INDUCTOR 2.2MH	
L600	1-412-533-21	INDUCTOR 47UH	
L800	1-406-677-11	INDUCTOR 10MH	
L802	1-424-795-11	COIL, HORIZONTAL LINEARITY	
L803	1-414-493-41	INDUCTOR 4.7MH	
		<PHOTO COUPLER>	
PH600 ⚠	8-749-010-64	PC123F2	
		(KV-PG14M40/PG14P70/PG14M72/L/N)	
PH600 ⚠	8-749-924-35	ON3171-R (KV-PG14P42/G/L/N)	
		<TRANSISTOR>	
Q001	8-729-421-19	UN2213	
Q002	8-729-421-19	UN2213	
Q003	8-729-010-25	MSD601-RT1	
Q004	8-729-010-25	MSD601-RT1	
Q005	8-729-421-19	UN2213	
Q100	8-729-010-25	MSD601-RT1	
Q101	8-729-010-25	MSD601-RT1 (KV-PG14M72/L/N)	
Q102	8-729-022-54	TRANSISTOR 2SC3779C,D-AA	
Q103	8-729-424-67	UN2216 (KV-PG14M40/PG14M72/L/N)	
Q104	8-729-424-67	UN2216 (KV-PG14M40/PG14M72/L/N)	
Q105	8-729-010-25	MSD601-RT1	
Q106	8-729-010-25	MSD601-RT1	
Q201	8-729-010-25	MSD601-RT1 (KV-PG14M40/PG14P42/G/L/N/PG14P70)	
Q204	8-729-216-22	2SA1162-G	
Q205	8-729-421-22	UN2211	
Q300	8-729-010-05	MSB709-RT1 (KV-PG14M40/PG14M72/L/N)	
Q301	8-729-010-05	MSB709-RT1	
Q302	8-729-010-05	MSB709-RT1 (KV-PG14M40/PG14M72/L/N)	
Q303	8-729-010-25	MSD601-RT1	
Q304	8-729-010-05	MSB709-RT1 (KV-PG14M40/PG14P42/G/L/N/PG14M72/L/N)	
Q305	8-729-010-05	MSB709-RT1	
Q306	8-729-010-25	MSD601-RT1 (KV-PG14M40/PG14P42/G/L/N/PG14M72/L/N)	
Q307	8-729-010-25	MSD601-RT1 (KV-PG14M40/PG14M72/L/N)	
Q308	8-729-424-67	UN2216 (KV-PG14M40/PG14P42/G/L/N/PG14M72/L/N)	
Q309	8-729-010-25	MSD601-RT1	
Q310	8-729-424-67	UN2216 (KV-PG14M40/PG14M72/L/N)	
Q311	8-729-010-25	MSD601-RT1 (KV-PG14M40/PG14M72/L/N)	
Q312	8-729-424-67	UN2216 (KV-PG14M40/PG14P42/G/L/N/PG14M72/L/N)	
Q313	8-729-424-67	UN2216 (KV-PG14M40/PG14M72/L/N)	
Q314	8-729-421-22	UN2211 (KV-PG14M40/PG14M72/L/N)	
Q315	8-729-010-25	MSD601-RT1	
Q318	8-729-010-25	MSD601-RT1 (KV-PG14M40/PG14P42/G/L/N/PG14P70)	
Q320	8-729-421-22	UN2211	
Q400	8-729-010-05	MSB709-RT1	
Q401	8-729-424-67	UN2216	
Q404	8-729-010-05	MSB709-RT1	
Q405	8-729-010-05	MSB709-RT1	
Q406	8-729-010-25	MSD601-RT1	
Q407	8-729-010-25	MSD601-RT1	
Q500	8-729-200-17	2SA1091-O	
Q800	8-729-140-50	2SC3209LK	
Q801	8-729-055-74	TRANSISTOR 2SD2624-CA	
Q802	8-729-050-48	TRANSISTOR IRF614-005	
Q850	8-729-010-25	MSD601-RT1	
Q851	8-729-010-05	MSB709-RT1	
		<RESISTOR>	

REF NO.	PART NO.	DESCRIPTION			REMARK
R001	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R002	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R003	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R004	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R005	1-216-043-91	RES-CHIP	560	5%	1/10W
R006	1-216-043-91	RES-CHIP	560	5%	1/10W
R007	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R008	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R009	1-216-037-00	RES-CHIP	330	5%	1/10W
R010	1-216-037-00	RES-CHIP	330	5%	1/10W
R011	1-216-295-91	SHORT	0		
R012	1-216-049-11	RES-CHIP	1K	5%	1/10W
R013	1-216-041-00	RES-CHIP	470	5%	1/10W
R014	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R015	1-216-025-11	RES-CHIP	100	5%	1/10W
R016	1-216-037-00	RES-CHIP	330	5%	1/10W
R017	1-216-049-11	RES-CHIP	1K	5%	1/10W
R018	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R019	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R020	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R021	1-216-049-11	RES-CHIP (KV-PG14M40/PG14M72/L/N)	1K	5%	1/10W
R022	1-216-049-11	RES-CHIP	1K	5%	1/10W
R024	1-216-025-11	RES-CHIP	100	5%	1/10W
R025	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R026	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R027	1-216-101-00	RES-CHIP	150K	5%	1/10W
R028	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R029	1-216-025-11	RES-CHIP	100	5%	1/10W
R030	1-216-025-11	RES-CHIP (KV-PG14M72/L/N)	100	5%	1/10W
R031	1-216-025-11	RES-CHIP	100	5%	1/10W
R032	1-216-049-11	RES-CHIP	1K	5%	1/10W
R033	1-216-073-91	RES-CHIP	10K	5%	1/10W
R034	1-216-073-91	RES-CHIP	10K	5%	1/10W
R035	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R036	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R037	1-216-049-11	RES-CHIP	1K	5%	1/10W
R038	1-216-049-11	RES-CHIP	1K	5%	1/10W
R039	1-216-043-91	RES-CHIP	560	5%	1/10W
R042	1-216-039-00	RES-CHIP	390	5%	1/10W
R043	1-216-025-11	RES-CHIP	100	5%	1/10W
R044	1-216-033-00	RES-CHIP	220	5%	1/10W
R045	1-216-073-91	RES-CHIP	10K	5%	1/10W
R046	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R047	1-216-025-11	RES-CHIP	100	5%	1/10W
R048	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R049	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R050	1-208-820-11	METAL CHIP	39K	0.5%	1/10W
R051	1-216-073-91	RES-CHIP	10K	5%	1/10W
R052	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R053	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R054	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R055	1-216-049-11	RES-CHIP	1K	5%	1/10W
R056	1-216-049-11	RES-CHIP	1K	5%	1/10W
R057	1-216-025-11	RES-CHIP	100	5%	1/10W
R058	1-216-025-11	RES-CHIP	100	5%	1/10W

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REF NO.	PART NO.	DESCRIPTION			REMARK
R059	1-216-033-00	RES-CHIP	220	5%	1/10W
R060	1-216-033-00	RES-CHIP	220	5%	1/10W
R061	1-216-033-00	RES-CHIP	220	5%	1/10W
R062	1-216-049-11	RES-CHIP	1K	5%	1/10W
		(KV-PG14M40/PG14P42/G/L/N/PG14M72/L/N)			
R063	1-216-049-11	RES-CHIP	1K	5%	1/10W
		(KV-PG14M40/PG14P42/G/L/N/PG14M72/L/N)			
R064	1-216-049-11	RES-CHIP	1K	5%	1/10W
		(KV-PG14M40/PG14M72/L/N)			
R066	1-216-049-11	RES-CHIP	1K	5%	1/10W
R071	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
		(KV-PG14M72/L/N)			
R072	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R073	1-216-081-00	RES-CHIP	22K	5%	1/10W
R074	1-216-049-11	RES-CHIP	1K	5%	1/10W
R076	1-216-025-11	RES-CHIP	100	5%	1/10W
R077	1-216-025-11	RES-CHIP	100	5%	1/10W
R100	1-216-049-11	RES-CHIP	1K	5%	1/10W
R101	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
		(KV-PG14M72/L/N)			
R102	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
		(KV-PG14M72/L/N)			
R103	1-211-981-11	METAL CHIP	33	0.5%	1/10W
R104	1-216-035-00	RES-CHIP	270	5%	1/10W
		(KV-PG14M72/L/N)			
R105	1-216-021-00	RES-CHIP	68	5%	1/10W
		(KV-PG14M72/L/N)			
R106	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R107	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R108	1-216-041-00	RES-CHIP	470	5%	1/10W
R109	1-216-019-00	RES-CHIP	56	5%	1/10W
R111	1-216-073-91	RES-CHIP	10K	5%	1/10W
		(KV-PG14M40/PG14M72/L/N)			
R112	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
		(KV-PG14M40/PG14M72/L/N)			
R113	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
		(KV-PG14M40/PG14M72/L/N)			
R114	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
		(KV-PG14M40/PG14M72/L/N)			
R115	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R117	1-216-081-00	RES-CHIP	22K	5%	1/10W
R118	1-216-041-00	RES-CHIP	470	5%	1/10W
R119	1-216-081-00	RES-CHIP	22K	5%	1/10W
R120	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R121	1-216-081-00	RES-CHIP	22K	5%	1/10W
R122	1-216-109-00	RES-CHIP	330K	5%	1/10W
R123	1-216-081-00	RES-CHIP	22K	5%	1/10W
R124	1-216-081-00	RES-CHIP	22K	5%	1/10W
R125	1-215-925-11	METAL OXIDE	22K	5%	3W
R128	1-216-025-11	RES-CHIP	100	5%	1/10W
R129	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R130	1-216-049-11	RES-CHIP	1K	5%	1/10W
R133	1-249-389-11	CARBON	4.7	5%	1/4W
R200	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
		(KV-PG14M72/L/N)			
R200	1-216-832-11	RES-CHIP	8.2K	5%	1/16W
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
R201	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
		(KV-PG14M72L/N)			
R201	1-216-821-11	RES-CHIP	1K	5%	1/16W
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
R202	1-216-081-00	RES-CHIP	22K	5%	1/10W

REF NO.	PART NO.	DESCRIPTION			REMARK
R206	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
R206	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
		(KV-PG14M72/L/N)			
R209	1-216-073-91	RES-CHIP	10K	5%	1/10W
R211	1-249-409-11	CARBON	220	5%	1/4W
R212	1-216-049-11	RES-CHIP	1K	5%	1/10W
R214	1-216-295-91	SHORT	0		
R215	1-216-073-91	RES-CHIP	10K	5%	1/10W
R216	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R217	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R218	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R219	1-216-025-11	RES-CHIP	100	5%	1/10W
R220	1-216-025-11	RES-CHIP	100	5%	1/10W
R221	1-216-809-11	RES-CHIP	100	5%	1/16W
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
R222	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
R240	1-216-077-91	RES-CHIP	15K	5%	1/10W
R241	1-216-077-91	RES-CHIP	15K	5%	1/10W
R242	1-216-073-91	RES-CHIP	10K	5%	1/10W
R243	1-216-073-91	RES-CHIP	10K	5%	1/10W
R300	1-216-033-00	RES-CHIP	220	5%	1/10W
R301	1-216-033-00	RES-CHIP	220	5%	1/10W
		(KV-PG14M40/PG14M72/L/N)			
R302	1-216-033-00	RES-CHIP	220	5%	1/10W
R303	1-216-033-00	RES-CHIP	220	5%	1/10W
		(KV-PG14M40/PG14M72/L/N)			
R304	1-216-049-11	RES-CHIP	1K	5%	1/10W
		(KV-PG14M72/L/N)			
R304	1-218-849-11	METAL CHIP	1.2K	0.5%	1/10W
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
R305	1-216-045-00	RES-CHIP	680	5%	1/10W
		(KV-PG14M40/PG14M72/L/N)			
R306	1-216-039-00	RES-CHIP	390	5%	1/10W
R307	1-216-033-00	RES-CHIP	220	5%	1/10W
R308	1-216-029-00	RES-CHIP	150	5%	1/10W
		(KV-PG14M72/L/N)			
R308	1-216-027-00	RES-CHIP	120	5%	1/10W
		(KV-PG14M40)			
R309	1-216-029-00	RES-CHIP	150	5%	1/10W
		(KV-PG14M40)			
R309	1-216-033-00	RES-CHIP	220	5%	1/10W
		(KV-PG14M72/L/N)			
R310	1-216-039-00	RES-CHIP	390	5%	1/10W
R311	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R312	1-216-033-00	RES-CHIP	220	5%	1/10W
R313	1-216-037-00	RES-CHIP	330	5%	1/10W
		(KV-PG14M40/PG14P42/G/L/N/PG14M72/L/N)			
R314	1-216-037-00	RES-CHIP	330	5%	1/10W
R315	1-216-081-00	RES-CHIP	22K	5%	1/10W
		(KV-PG14M40/PG14P42/G/L/N/PG14M72/L/N)			
R316	1-216-031-00	RES-CHIP	180	5%	1/10W
R317	1-216-041-00	RES-CHIP	470	5%	1/10W
		(KV-PG14M40/PG14P42/G/L/N/PG14M72/L/N)			
R318	1-216-081-00	RES-CHIP	22K	5%	1/10W
		(KV-PG14M40/PG14M72/L/N)			
R319	1-216-041-00	RES-CHIP	470	5%	1/10W
		(KV-PG14M40/PG14M72/L/N)			
R320	1-216-081-00	RES-CHIP	22K	5%	1/10W
R323	1-216-041-00	RES-CHIP	470	5%	1/10W
R324	1-216-041-00	RES-CHIP	470	5%	1/10W
		(KV-PG14M40/PG14M72/L/N)			
R325	1-216-081-00	RES-CHIP	22K	5%	1/10W

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REF NO.	PART NO.	DESCRIPTION			REMARK
		(KV-PG14M40/PG14M72/L/N)			
R326	1-216-081-00	RES-CHIP	22K	5%	1/10W
		(KV-PG14M40/PG14M72/L/N)			
R327	1-216-049-11	RES-CHIP	1K	5%	1/10W
R328	1-216-025-11	RES-CHIP	100	5%	1/10W
R329	1-216-043-91	RES-CHIP	560	5%	1/10W
R330	1-216-295-91	SHORT	0		
R331	1-216-295-91	SHORT	0		
R332	1-216-295-91	SHORT	0		
R333	1-216-025-11	RES-CHIP	100	5%	1/10W
R334	1-216-025-11	RES-CHIP	100	5%	1/10W
R335	1-216-025-11	RES-CHIP	100	5%	1/10W
R336	1-216-025-11	RES-CHIP	100	5%	1/10W
R337	1-216-073-91	RES-CHIP	10K	5%	1/10W
R338	1-216-077-91	RES-CHIP	15K	5%	1/10W
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
R339	1-216-035-00	RES-CHIP	270	5%	1/10W
R340	1-162-974-11	CERAMIC CHIP	0.01UF		50V
R342	1-216-295-91	SHORT	0		
R345	1-216-025-11	RES-CHIP	100	5%	1/10W
R348	1-216-025-11	RES-CHIP	100	5%	1/10W
R350	1-216-039-00	RES-CHIP	390	5%	1/10W
R352	1-216-073-91	RES-CHIP	10K	5%	1/10W
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
R353	1-216-119-00	RES-CHIP	820K	5%	1/10W
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
R354	1-216-119-00	RES-CHIP	820K	5%	1/10W
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
R355	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
R356	1-216-049-11	RES-CHIP	1K	5%	1/10W
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
R357	1-216-101-00	RES-CHIP	150K	5%	1/10W
R358	1-216-025-11	RES-CHIP	100	5%	1/10W
R360	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R361	1-216-033-00	RES-CHIP	220	5%	1/10W
R362	1-216-083-00	RES-CHIP	27K	5%	1/10W
R363	1-216-295-91	SHORT	0		
R364	1-216-077-91	RES-CHIP	15K	5%	1/10W
R365	1-216-295-91	SHORT	0		
R367	1-216-099-00	RES-CHIP	120K	5%	1/10W
R368	1-216-049-11	RES-CHIP	1K	5%	1/10W
R369	1-216-123-11	RES-CHIP	1.2M	5%	1/10W
R370	1-216-083-00	RES-CHIP	27K	5%	1/10W
R371	1-208-820-11	METAL CHIP	39K	0.5%	1/10W
R374	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R376	1-216-295-91	SHORT	0		
R384	1-216-025-11	RES-CHIP	100	5%	1/10W
		(KV-PG14M72/L/N)			
R385	1-216-025-11	RES-CHIP	100	5%	1/10W
		(KV-PG14M72/L/N)			
R385	1-216-295-91	SHORT	0		
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
R386	1-216-025-11	RES-CHIP	100	5%	1/10W
		(KV-PG14M72/L/N)			
R386	1-216-295-91	SHORT	0		
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
R387	1-216-025-11	RES-CHIP	100	5%	1/10W
		(KV-PG14M72/L/N)			
R388	1-216-025-11	RES-CHIP	100	5%	1/10W
		(KV-PG14M72/L/N)			
R389	1-216-109-00	RES-CHIP	330K	5%	1/10W
R390	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R391	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R392	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R393	1-216-049-11	RES-CHIP	1K	5%	1/10W
		(KV-PG14M40/PG14P42/G/L/N/PG14P70)			
R400	1-216-295-91	SHORT	0		
R401	1-216-049-11	RES-CHIP	1K	5%	1/10W
R409	1-216-113-00	RES-CHIP	470K	5%	1/10W
R410	1-216-025-11	RES-CHIP	100	5%	1/10W
R411	1-216-049-11	RES-CHIP	1K	5%	1/10W
R412	1-216-049-11	RES-CHIP	1K	5%	1/10W
R413	1-216-113-00	RES-CHIP	470K	5%	1/10W
R414	1-216-049-11	RES-CHIP	1K	5%	1/10W
R415	1-216-073-91	RES-CHIP	10K	5%	1/10W
R416	1-216-073-91	RES-CHIP	10K	5%	1/10W
R417	1-216-021-00	RES-CHIP	68	5%	1/10W
R418	1-216-025-11	RES-CHIP	100	5%	1/10W
R420	1-216-049-11	RES-CHIP	1K	5%	1/10W
R421	1-216-049-11	RES-CHIP	1K	5%	1/10W
R423	1-208-820-11	METAL CHIP	39K	0.5%	1/10W
R424	1-216-091-00	RES-CHIP	56K	5%	1/10W
R425	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R426	1-216-049-11	RES-CHIP	1K	5%	1/10W
R427	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R428	1-216-041-00	RES-CHIP	470	5%	1/10W
R429	1-216-073-91	RES-CHIP	10K	5%	1/10W
R430	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R432	1-216-121-11	RES-CHIP	1M	5%	1/10W
R433	1-216-091-00	RES-CHIP	56K	5%	1/10W
R434	1-216-049-11	RES-CHIP	1K	5%	1/10W
R436	1-211-990-11	METAL CHIP	75	0.5%	1/10W
R438	1-216-049-11	RES-CHIP	1K	5%	1/10W
R440	1-216-121-11	RES-CHIP	1M	5%	1/10W
R445	1-216-089-91	RES-CHIP	47K	5%	1/10W
R500	1-260-126-81	CARBON	180K	5%	1/2W
R501	1-249-418-11	CARBON	1.2K	5%	1/4W
R502	1-216-371-00	METAL OXIDE	1.5	5%	2W
R503	1-216-091-00	RES-CHIP	56K	5%	1/10W
R504	1-216-091-00	RES-CHIP	56K	5%	1/10W
R505	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R506	1-260-125-11	CARBON	150K	5%	1/2W
R507	1-260-288-11	CARBON	0.47	5%	1/2W
R508	1-260-288-11	CARBON	0.47	5%	1/2W
R509	1-260-288-11	CARBON	0.47	5%	1/2W
R510	1-260-127-11	CARBON	220K	5%	1/2W
R511	1-215-463-00	METAL	56K	1%	1/4W
R512	1-215-453-00	METAL	22K	1%	1/4W
R513	1-215-449-00	METAL	15K	1%	1/4W
R514	1-249-421-11	CARBON	2.2K	5%	1/4W
R553	1-249-385-11	CARBON	2.2	5%	1/4W
R554	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R557	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R558	1-216-081-00	RES-CHIP	22K	5%	1/10W
R559	1-216-089-91	RES-CHIP	47K	5%	1/10W
R563	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R564	1-215-865-11	METAL OXIDE	220	5%	1W
R565	1-216-350-11	METAL OXIDE	1.2	5%	1W
R567	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R568	1-215-457-00	METAL	33K	1%	1/4W
R600	1-215-915-11	METAL OXIDE	470	5%	3W
R602	1-202-962-11	CEMENTED	3.3	5%	10W
		(KV-PG14P42/G/L/N/PG14M72/L/N)			
R602	1-205-997-11	CEMENTED	2.2	5%	10W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

A A3

REF NO.		PART NO.	DESCRIPTION			REMARK
			(KV-PG14M40/PG14P70)			
R605		1-207-615-00	METAL	0.33	10%	2W
R606		1-216-045-00	RES-CHIP	680	5%	1/10W
R608		1-260-129-11	CARBON	330K	5%	1/2W
R609		1-216-097-11	RES-CHIP	100K	5%	1/10W
R610		1-215-926-00	METAL OXIDE	33K	5%	3W
R611		1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R612		1-249-419-11	CARBON	1.5K	5%	1/4W
R614		1-216-397-11	METAL OXIDE	4.7	5%	3W
R615		1-215-877-11	METAL OXIDE	22K	5%	1W
R617		1-216-049-11	RES-CHIP	1K	5%	1/10W
R619	⚠	1-240-917-81	METAL	8.2M	5%	1W
R620		1-249-389-11	CARBON	4.7	5%	1/4W
R623		1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R624		1-260-125-11	CARBON	150K	5%	1/2W
R625		1-216-397-11	METAL OXIDE	4.7	5%	3W
R626		1-260-292-11	CARBON	1	5%	1/2W
R628		1-216-295-91	SHORT	0		
R800		1-216-049-11	RES-CHIP	1K	5%	1/10W
R801		1-216-081-00	RES-CHIP	22K	5%	1/10W
R802		1-215-919-11	METAL OXIDE	2.2K	5%	3W
R803		1-260-332-51	CARBON	2.2K	5%	1/2W
R806		1-216-295-91	SHORT	0		
R808		1-249-421-11	CARBON	2.2K	5%	1/4W
R810		1-215-886-11	METAL OXIDE	100	5%	2W
R811		1-215-911-11	METAL OXIDE	100	5%	3W
R812		1-215-919-11	METAL OXIDE	2.2K	5%	3W
R813		1-216-049-11	RES-CHIP	1K	5%	1/10W
R860		1-216-103-00	RES-CHIP	180K	5%	1/10W
R861		1-216-295-91	SHORT	0		
R862		1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R863		1-216-073-91	RES-CHIP	10K	5%	1/10W
R864		1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R865		1-216-073-91	RES-CHIP	10K	5%	1/10W
R866		1-216-049-11	RES-CHIP	1K	5%	1/10W
R867		1-208-812-11	METAL CHIP	18K	0.5%	1/10W
R868		1-249-393-11	CARBON	10	5%	1/4W
R869		1-249-381-11	CARBON	1	5%	1/4W
R870		1-216-103-00	RES-CHIP	180K	5%	1/10W
R874		1-215-475-00	METAL	180K	1%	1/4W
R878		1-216-049-11	RES-CHIP	1K	5%	1/10W
R879		1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R880		1-216-097-11	RES-CHIP	100K	5%	1/10W
R881		1-216-085-91	RES-CHIP	33K	5%	1/10W
R882		1-216-073-91	RES-CHIP	10K	5%	1/10W
R883		1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R884		1-216-089-91	RES-CHIP	47K	5%	1/10W
R885		1-216-073-91	RES-CHIP	10K	5%	1/10W
R886		1-216-295-91	SHORT	0		
R887		1-215-477-00	METAL	220K	1%	1/4W
R888		1-215-477-00	METAL	220K	1%	1/4W
R889		1-208-832-11	METAL CHIP	120K	0.5%	1/10W
			<VARIABLE RESISTOR>			
RV300		1-241-769-11	RES, ADJ, CARBON 470K			
			<SWITCH>			
S001		1-692-431-21	SWITCH, TACTILE			
S002		1-692-431-21	SWITCH, TACTILE			
S003		1-692-431-21	SWITCH, TACTILE			
S004		1-692-431-21	SWITCH, TACTILE			
S005		1-692-431-21	SWITCH, TACTILE			
S006		1-692-431-21	SWITCH, TACTILE			
S600	⚠	1-571-433-31	SWITCH, PUSH (AC POWER)			
S800		1-572-707-11	SWITCH, LEVER			
SWF100		1-781-042-11	FILTER, SURFACE WAVE			
			<TRANSFORMER>			
T503	⚠	1-453-209-21	TRANSFORMER ASSY FLYBACK (NX-4450//M3A4)			
T600	⚠	1-431-747-11	TRANSFORMER, LINE FILTER (KV-PG14M40/PG14M70)			
T600	⚠	1-419-817-11	COIL, LINE FILTER (KV-PG14P42/PG14P42/L/G/N)			
T600	⚠	1-431-746-11	TRANSFORMER, LINE FILTER (KV-PG14M72/PG14M72/L/N)			
T601	⚠	1-437-332-21	TRANSFORMER, CONVERTER (SRT)			
T800		1-435-374-11	TRANSFORMER, FERRITE (HDT)			
			<THERMISTOR>			
THP600		1-803-744-11	THERMISTOR, POSITIVE			
			<TUNER>			
TU100		8-598-591-00	TUNER, VSS BT-AG402			
			<VARISTOR>			
VDR600		1-803-830-11	VARISTOR (ERZV14D621) (KV-PG14M40/PG14P42/G/L/N/PG14P70)			
			<CRYSTAL>			
X001		1-577-358-21	VIBRATOR, CERAMIC			
X300		1-567-505-11	OSCILLATOR, CRYSTAL			
X301		1-567-504-11	OSCILLATOR, CRYSTAL			

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	*	A-1272-448-A	A3 BOARD MOUNTED (KV-PG14M72/PG14M72/L/PG14M72/N) **********			
			<CAPACITOR>			
C2101		1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2102		1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C2103		1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C2104		1-163-247-91	CERAMIC CHIP	68PF	5.00%	50V
C2105		1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V
C2201		1-163-243-11	CERAMIC CHIP	47PF	5.00%	50V
C2202		1-163-243-11	CERAMIC CHIP	47PF	5.00%	50V
C2203		1-126-947-11	ELECT	47UF	20.00%	25V
C2204		1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2205		1-164-005-11	CERAMIC CHIP	0.47UF		25V

A3

REF NO.	PART NO.	DESCRIPTION		REMARK	
C2208	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C2209	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2210	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2211	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2213	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2214	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C2301	1-162-925-11	CERAMIC CHIP	68PF	5.00%	50V
C2302	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C2303	1-162-967-11	CERAMIC CHIP	0.0033UF	10.00%	50V
C2304	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C2305	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2306	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2307	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C2308	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C2309	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2401	1-164-346-11	CERAMIC CHIP	1UF		16V
C2402	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2403	1-126-947-11	ELECT	47UF	20.00%	25V
C2404	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2405	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C2406	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C2407	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C2408	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2409	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C2410	1-126-965-91	ELECT	22UF	20.00%	50V
C2411	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2413	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2414	1-126-961-11	ELECT	2.2UF	20.00%	50V
C2415	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2416	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C2417	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C2418	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2419	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C2501	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C2502	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C2601	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2602	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2603	1-126-947-11	ELECT	47UF	20.00%	25V
C2604	1-126-947-11	ELECT	47UF	20.00%	25V
		<FILTER>			
CF2201	1-234-685-21	FILTER, BAND PASS (F4.5D)			
		<CONNECTOR>			
CN2101 *	1-774-812-11	CONNECTOR, BOARD TO BOARD 7P			
CN2102 *	1-774-812-11	CONNECTOR, BOARD TO BOARD 7P			
		<DIODE>			
D2301	8-719-988-61	1SS355TE-17			
D2302	8-719-988-61	1SS355TE-17			
D2401	8-719-988-61	1SS355TE-17			
		<FERRITE BEAD>			
FB2401	1-414-235-22	FERRITE	0UH		
FB2402	1-414-235-22	FERRITE	0UH		
FB2403	1-414-235-22	FERRITE	0UH		
FB2404	1-414-235-22	FERRITE	0UH		
FB2405	1-414-231-22	FERRITE	0UH		
FB2406	1-414-231-22	FERRITE	0UH		
FB2407	1-414-235-22	FERRITE	0UH		
FB2501	1-414-235-22	FERRITE	0UH		
		<IC>			
IC2201	6-700-979-01	IC LA7567BM-TRM			
IC2401	6-700-124-01	IC MSP3417G-QG-B8			
IC2601	8-759-052-52	L78M05T-FA			
		<COIL>			
L2101	1-414-141-11	INDUCTOR	0.82UH		
L2103	1-410-987-42	INDUCTOR	0.33UH		
L2201	1-410-509-61	INDUCTOR	10UH		
L2302	1-414-855-31	INDUCTOR	1UH		
L2303	1-414-855-31	INDUCTOR	1UH		
		<TRANSISTOR>			
Q2101	8-729-047-14	TRANSISTOR 2SC3775			
Q2301	8-729-120-28	2SC1623-L5L6			
Q2302	8-729-039-57	DTC363EKT146			
Q2303	8-729-039-57	DTC363EKT146			
Q2304	8-729-424-67	UN2216			
		<RESISTOR>			
R2101	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2102	1-216-013-00	RES-CHIP	33	5%	1/10W
R2103	1-216-013-00	RES-CHIP	33	5%	1/10W
R2104	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2105	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2106	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2108	1-216-035-00	RES-CHIP	270	5%	1/10W
R2201	1-216-043-91	RES-CHIP	560	5%	1/10W
R2202	1-216-037-00	RES-CHIP	330	5%	1/10W
R2203	1-216-025-11	RES-CHIP	100	5%	1/10W
R2204	1-216-029-00	RES-CHIP	150	5%	1/10W
R2205	1-216-037-00	RES-CHIP	330	5%	1/10W
R2206	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2207	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2209	1-216-097-11	RES-CHIP	100K	5%	1/10W
R2211	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2212	1-216-097-11	RES-CHIP	100K	5%	1/10W
R2213	1-216-295-91	SHORT	0		
R2214	1-218-917-11	METAL CHIP	820K	0.5%	1/10W
R2301	1-216-037-00	RES-CHIP	330	5%	1/10W
R2302	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R2303	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2304	1-216-025-11	RES-CHIP	100	5%	1/10W
R2305	1-216-041-00	RES-CHIP	470	5%	1/10W
R2306	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R2307	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R2308	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R2309	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2401	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2403	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2501	1-216-025-11	RES-CHIP	100	5%	1/10W
R2502	1-216-025-11	RES-CHIP	100	5%	1/10W
R2503	1-216-025-11	RES-CHIP	100	5%	1/10W
R2504	1-216-025-11	RES-CHIP	100	5%	1/10W
R2601	1-215-858-00	METAL OXIDE	15	5%	1W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

A3 C F

REF NO.		PART NO.	DESCRIPTION			REMARK
			<FILTER>			
SF2101		1-795-295-11	FILTER, SAW (38MHZ)			
SF2102		1-767-302-11	FILTER, SURFACE WAVE			
			<TRANSFORMER>			
T2201		1-416-803-11	COIL, VARIABLE			
			<CRYSTAL>			
X2401		1-781-041-11	VIBRATOR, CRYSTAL			
**********						
	*	A-1332-226-A	C BOARD MOUNTED (KV-PG14M40/PG14M72/PG14M72/L/PG14M72/N/PG14P70)			
	*	A-1332-249-A	C BOARD MOUNTED (KV-PG14P42/PG14P42/G/PG14P42/L/PG14P72/N) **********			
		4-382-854-01	SCREW (M3X8), P, SW (+)			
			<CAPACITOR>			
C701		1-115-350-51	CERAMIC	0.0047UF		2KV
C702		1-102-074-00	CERAMIC	0.001UF	10.00%	50V
C703		1-107-651-11	ELECT	4.7UF	20.00%	250V
C704		1-130-202-00	FILM	0.022UF	5.00%	400V
C708		1-102-114-00	CERAMIC	470PF	10.00%	50V
C709		1-102-114-00	CERAMIC	470PF	10.00%	50V
C710		1-102-114-00	CERAMIC	470PF	10.00%	50V
C712		1-102-116-00	CERAMIC	680PF	10.00%	50V
C713		1-102-117-00	CERAMIC	820PF	10.00%	50V
C714		1-102-116-00	CERAMIC	680PF	10.00%	50V
C716		1-126-933-11	ELECT	100UF	20.00%	16V
C717		1-102-106-00	CERAMIC	100PF	10.00%	50V
C718		1-126-933-11	ELECT	100UF	20.00%	16V
C719		1-102-116-00	CERAMIC	680PF	10.00%	50V
C736		1-102-114-00	CERAMIC	470PF	10.00%	50V
C737		1-102-114-00	CERAMIC	470PF	10.00%	50V
C746		1-102-114-00	CERAMIC	470PF	10.00%	50V
			<CONNECTOR>			
CN701	*	1-564-508-11	PLUG, CONNECTOR 5P			
CN702		1-695-915-11	TAB (CONTACT)			
CN703	*	1-564-509-11	PLUG, CONNECTOR 6P			
CN704		1-695-915-11	TAB (CONTACT)			
			<DIODE>			
D701		8-719-911-19	1SS119-25			
D702		8-719-911-19	1SS119-25			
D703		8-719-911-19	1SS119-25			
D707		8-719-911-19	1SS119-25			
D708		8-719-911-19	1SS119-25			
D709		8-719-911-19	1SS119-25			
D716		8-719-911-19	1SS119-25			
D717		8-719-070-16	NNCD9.1A-T1			

REF NO.		PART NO.	DESCRIPTION			REMARK
			<JACK>			
J701	⚠	1-540-071-22	SOCKET, CRT			
			<COIL>			
L701		1-412-529-11	INDUCTOR	22UH		
L706		1-414-191-11	INDUCTOR	150UH		
			<TRANSISTOR>			
Q704		8-729-326-11	2SC2611			
Q705		8-729-326-11	2SC2611			
Q706		8-729-326-11	2SC2611			
Q707		8-729-200-17	2SA1091-O			
Q708		8-729-200-17	2SA1091-O			
Q709		8-729-200-17	2SA1091-O			
Q710		8-729-119-78	2SC2785-HFE			
Q711		8-729-119-78	2SC2785-HFE			
Q712		8-729-119-78	2SC2785-HFE			
			<RESISTOR>			
R703		1-219-752-11	CARBON	100K	5%	1/2W
R705		1-216-365-00	METAL OXIDE	0.47	5%	2W
R710		1-216-486-00	METAL OXIDE	8.2K	5%	3W
R711		1-260-103-11	CARBON	2.2K	5%	1/2W
R712		1-216-486-00	METAL OXIDE	8.2K	5%	3W
R713		1-260-105-11	CARBON	3.3K	5%	1/2W
R714		1-216-486-00	METAL OXIDE	8.2K	5%	3W
R715		1-260-105-11	CARBON	3.3K	5%	1/2W
R716		1-249-417-11	CARBON	1K	5%	1/4W
R717		1-249-417-11	CARBON	1K	5%	1/4W
R718		1-249-417-11	CARBON	1K	5%	1/4W
R725		1-249-424-11	CARBON	3.9K	5%	1/4W
R726		1-249-424-11	CARBON	3.9K	5%	1/4W
R727		1-249-424-11	CARBON	3.9K	5%	1/4W
R728		1-249-408-11	CARBON	180	5%	1/4W
R729		1-249-408-11	CARBON	180	5%	1/4W
R730		1-249-408-11	CARBON	180	5%	1/4W
R731		1-249-399-11	CARBON	33	5%	1/4W
R732		1-249-399-11	CARBON	33	5%	1/4W
R733		1-249-399-11	CARBON	33	5%	1/4W
R734		1-219-743-11	CARBON	100	5%	1/2W
R738		1-247-807-31	CARBON	100	5%	1/4W
R739		1-247-807-31	CARBON	100	5%	1/4W
R740		1-247-807-31	CARBON	100	5%	1/4W
			<VARIABLE RESISTOR>			
RV702		1-241-656-11	RES, ADJ, METAL FILM 110M			
**********						
	*	A-1241-499-A	F BOARD MOUNTED (KV-PG14M72/PG14M72/L/PG14M72/N) **********			
		1-533-223-11	CLIP, FUSE			

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

F

REF NO.		PART NO.	DESCRIPTION			REMARK
			<CAPACITOR>			
C4601	⚠	1-115-165-11	FILM	0.1UF	20.00%	275V
C4602	⚠	1-117-703-51	CERAMIC	0.0047UF	99%	250V
			<CONNECTOR>			
CN4601		1-580-843-11	PIN, CONNECTOR (POWER)			
CN4602		1-580-843-11	PIN, CONNECTOR (POWER)			
CN4603		1-695-915-11	TAB (CONTACT)			
			<FUSE>			
F4601	⚠	1-576-016-11	FUSE, CYLINDRICAL (TIME-LAG) 3.15A/250V			
			<RESISTOR>			
R4601	⚠	1-219-759-91	SOLID	1M	10%	1/2W
			<TRANSFORMER>			
T4601	⚠	1-435-214-11	TRANSFORMER, LINE FILTER			
T4602	⚠	1-435-214-11	TRANSFORMER, LINE FILTER			
			<VARISTOR>			
VDR461		1-803-830-11	VARISTOR (ERZV14D621)			

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ACCESSORIES AND PACKING MATERIALS
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	1-569-008-11	ADAPTOR, CONVERSION 2P (KV-PG14P70)
	1-417-151-22	MATCHING TRANSFORMER, ANTENNA (KV-PG14P70/PG14P42/L/G/N)
	1-501-372-81	ANTENNA, TELESCOPIC (KV-PG14P70/PG14P42/PG14P42/L/G/N)
*	4-058-239-01	BAG, PROTECTION (KV-PG14P42/G/L/N)
*	4-377-015-01	BAG, PROTECTION (KV-PG14M72/L/N/PG14M40/PG14P70)
*	4-085-492-01	CUSHION, UPPER (KV-PG14P42/G/L/N)
*	4-085-493-01	CUSHION, LOWER (KV-PG14P42/G/L/N)
*	4-083-188-01	CUSHION, LOWER (KV-PG14M72/L/N/PG14M40/PG14P70)
*	4-083-189-01	CUSHION, UPPER (KV-PG14M72/L/N/PG14M40/PG14P70)
*	4-085-494-01	INDIVIDUAL CARTON (KV-PG14P42/G/L/N)
*	4-084-391-01	INDIVIDUAL CARTON (KV-PG14M72/L/N /PG14M40/PG14P70)
	4-084-172-11	MANUAL, INSTRUCTION (KV-PG14M40/PG14P70)
	4-084-172-21	MANUAL, INSTRUCTION (KV-PG14M40/PG14P70)
	4-084-172-31	MANUAL, INSTRUCTION (KV-PG14M40/PG14P70)
	4-084-117-12	MANUAL, INSTRUCTION (KV-PG14M72/PG14M72/L/N)
	4-084-117-22	MANUAL, INSTRUCTION (KV-PG14M72/PG14M72/L/N)
	4-084-117-32	MANUAL, INSTRUCTION (KV-PG14M72/PG14M72/L/N)
	4-085-446-11	MANUAL, INSTRUCTION (KV-PG14P42/PG14P42/L/G/N)
	4-085-446-21	MANUAL, INSTRUCTION (KV-PG14P42/PG14P42/L/G/N)

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REMOTE COMMANDER
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	1-418-163-51	REMOTE COMMANDER (RM-952) (KV-PG14M40/PG14M72/PG14M72/N/ PG14P70/PG14P42/PG14P42/N)
	1-418-861-12	REMOTE COMMANDER (RM-952) (KV-PG14M72/L/PG14P42/L)
	1-418-861-32	REMOTE COMMANDER (RM-952) (KV-PG14P42/G)
	4-084-290-01	BATTERY COVER, REMOTE COMMANDER (KV-PG14M40/PG14M72/PG14M72/N/ PG14P70/PG14P42/PG14P42/N)
	4-075-331-11	BATTERY COVER, REMOTE COMMANDER (KV-PG14M72/L/PG14P42/L)
	4-075-331-31	BATTERY COVER, REMOTE COMMANDER (KV-PG14P42/G)

SUPPLEMENT-1 BG2T CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-PG14M40	RM-952	GE	SCC-U69C-A
KV-PG14M72 (COOL SILVER)	RM-952 (GREY)	Hong Kong	SCC-U64B-A
KV-PG14M72/L (PEARL BLUE)	RM-952 (BLUE)	Hong Kong	SCC-U64C-A
KV-PG14M72/N (CHAMPAGNE GOLD)	RM-952 (GREY)	Hong Kong	SCC-U64D-A
KV-PG14P42 (COOL SILVER)	RM-952 (GREY)	Thailand	SCC-U73B-A
KV-PG21P42/G (PEARL GREEN)	RM-952 (GREEN)	Thailand	SCC-U73D-A
KV-PG21P42/L (PEARL BLUE)	RM-952 (BLUE)	Thailand	SCC-U73C-A
KV-PG21P42/N (CHAMPAGNE GOLD)	RM-952 (GREY)	Thailand	SCC-U73E-A
KV-PG14P70	RM-952	E	SCC-U68C-A

SUBJECT : ADD INDONESIA DESTINATION TO MODELS KV-PG14P70

Note : The contents of the new Indonesia destination will be exactly the same as E destination.

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-PG14M40	RM-952	GE	SCC-U69C-A
KV-PG14M72 (COOL SILVER)	RM-952 (GREY)	Hong Kong	SCC-U64B-A
KV-PG14M72/L (PEARL BLUE)	RM-952 (BLUE)	Hong Kong	SCC-U64C-A
KV-PG14M72/N (CHAMPAGNE GOLD)	RM-952 (GREY)	Hong Kong	SCC-U64D-A
KV-PG14P42 (COOL SILVER)	RM-952 (GREY)	Thailand	SCC-U73B-A
KV-PG21P42/G (PEARL GREEN)	RM-952 (GREEN)	Thailand	SCC-U73D-A
KV-PG21P42/L (PEARL BLUE)	RM-952 (BLUE)	Thailand	SCC-U73C-A
KV-PG21P42/N (CHAMPAGNE GOLD)	RM-952 (GREY)	Thailand	SCC-U73E-A
KV-PG14P70	RM-952	E	SCC-U68C-A
KV-PG14P70	RM-952	Indonesia	SCC-U68C-A

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